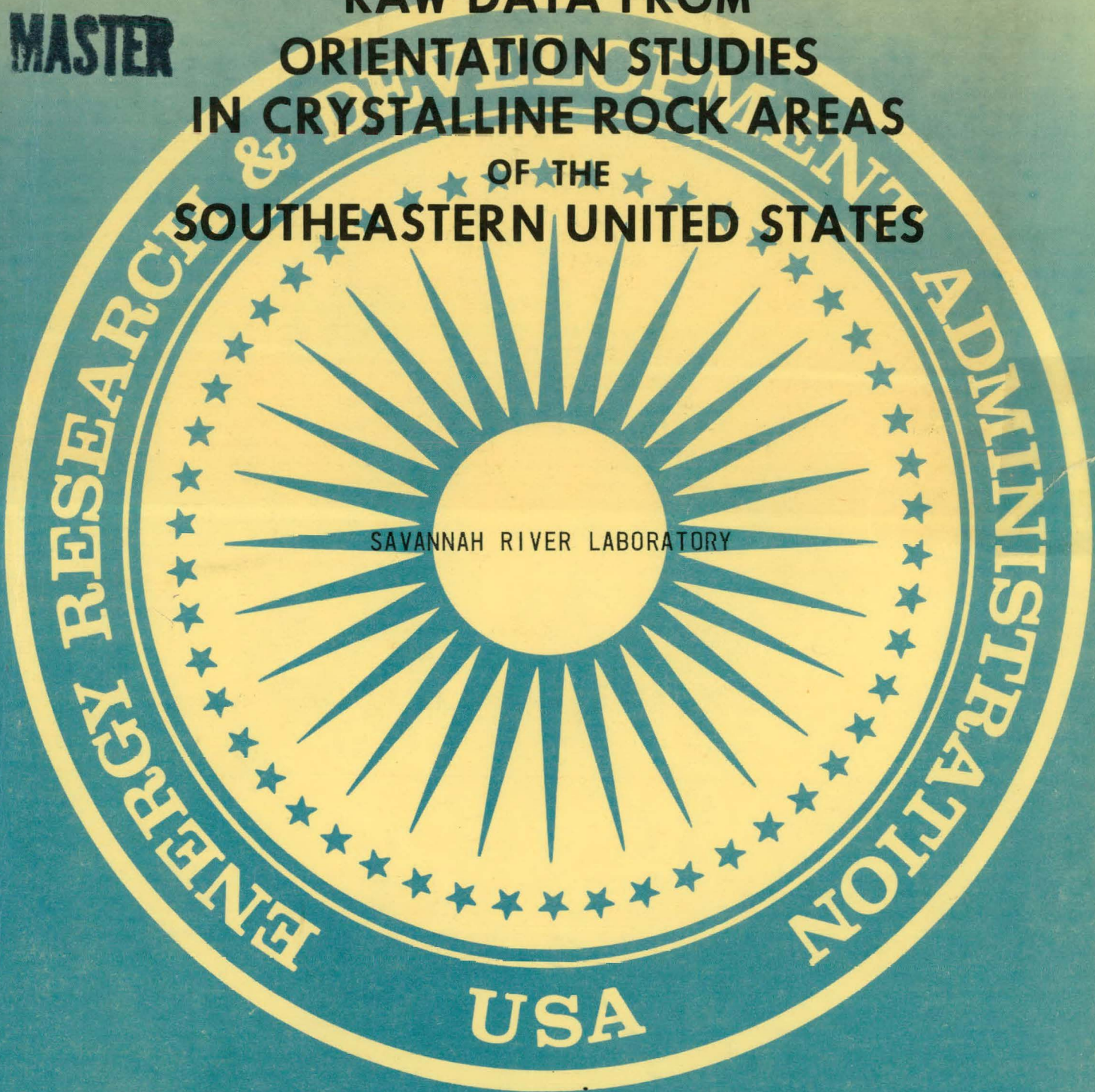
GJBX-9(76)

MASTER

RAW DATA FROM ORIENTATION STUDIES IN CRYSTALLINE ROCK AREAS OF THE SOUTHEASTERN UNITED STATES



March 1976

GRAND JUNCTION OFFICE, COLORADO
ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION

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DPST-76-141-1

SAVANNAH RIVER LABORATORY NURE ORIENTATION STUDY

RAW DATA RELEASE

by

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Approved by

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Publication Date: March 1976

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PREPARED FOR THE U. S. ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION UNDER CONTRACT AT(07-2)-1

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FOREWORD

This preliminary report is released with the information in the form of raw data in order to make the information available to interested organizations as quickly as possible and thereby to assist the search for uranium resources.

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RAW DATA FROM ORIENTATION STUDIES IN CRYSTALLINE ROCK AREAS OF THE SOUTHEASTERN US

The National Uranium Resource Evaluation Program was established to evaluate domestic uranium resources in the continental United States and to identify areas favorable for uranium exploration. The Grand Junction Office of the Energy Research and Development Administration (ERDA) is responsible for administering and coordinating NURE Program efforts. The Savannah River Laboratory has responsibility for hydrogeochemical and stream sediment reconnaissance (HSSR) of twenty-five states in the eastern United States. Other ERDA laboratories have responsibility for similar reconnaissance in the rest of the continental United States including Alaska (Figure 1).

A development program is in progress to assure that the SRL HSSR program will have a sound technical basis. Orientation or pilot studies of known uranium localities are being conducted in a variety of geologic and geographic settings. A survey of orientation studies conducted through March 1976 can be found in SRL NURE quarterly reports (Series DPST-(Year)-138). This paper presents raw data for orientation studies conducted in crystalline rock areas of the Southeast which were chosen because of published references to uranium mineralization.

The results presented here are preliminary. A supplemental report containing additional analytical data will be filed later. Finally, topical reports will be published to present conclusions of the study.

Data for four orientation study areas are included in this report. These areas are indicated in Figure 2 as:

1. Lamar County, Georgia
2. Oconee County, South Carolina
3. Brush Creek, North Carolina
4. North Harper, North Carolina

For each of these study areas this report includes: sample locality maps; tables of field data; and tables of analytical data. Descriptions of each follow.

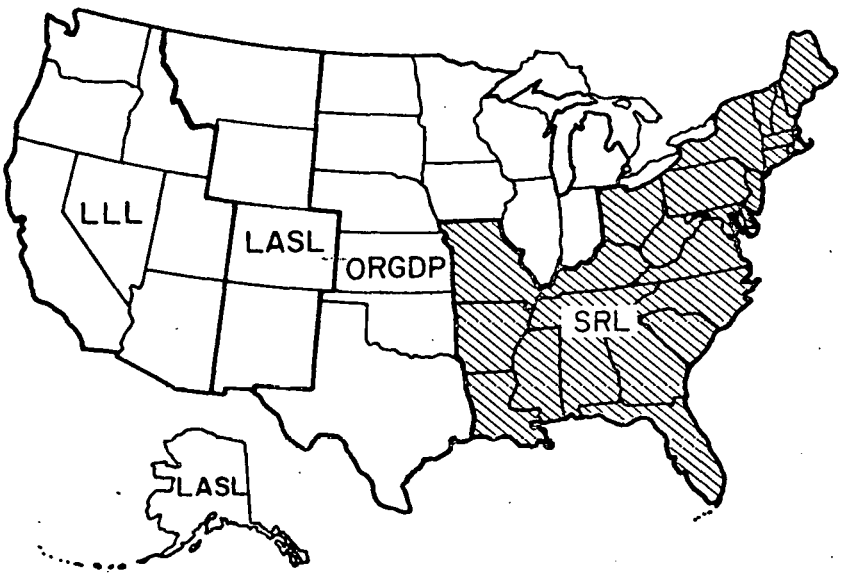


FIGURE 1

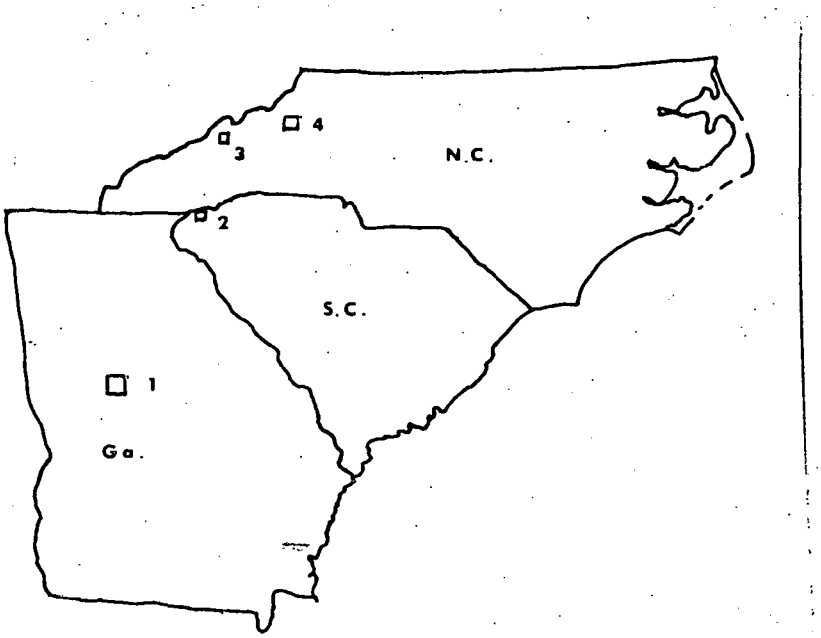
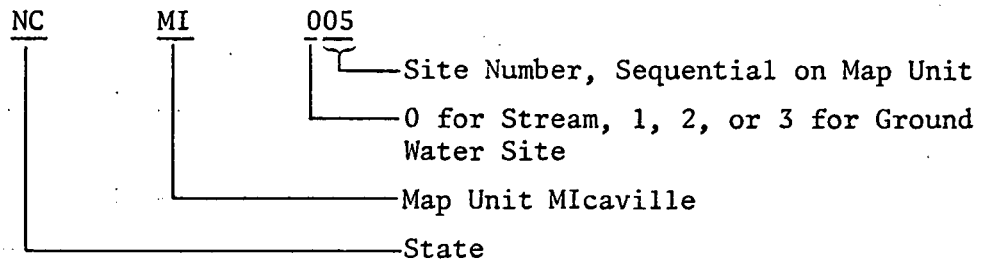


FIGURE 2

SAMPLE LOCALITY MAPS

Sample locality maps are prepared by tracing stream networks from USGS quadrangle maps. Sampling sites are designated by a seven character code, e.g.:



For convenience, only the last three characters are normally plotted on the maps. In future reports this site code may be replaced by a uniform nationwide NURE sample identification code.

FIELD DATA

Field data are presented in two parts. A complete record of all field data is included for reference. Field analyses are also extracted into tabular form for convenience of use. Most entries are self-explanatory. Details may be obtained from SRL DPST-75-138-2 and SRL DPST-75-138-3.

A brief explanation of each column in the field data tables follows.

SITE CODE

This is the field name used for each site. (See maps 1 through 7). In later reports the field names will be replaced by a uniform NURE sample identification code.

LAT and LONG*

Latitude and longitude were measured to four decimal places and are probably accurate to this figure.

ALKA**

Milliequivalents of H_2SO_4 per liter required to titrate to a pH of 4.5.

COND*

Conductivity in micromhos/cm.

SO_4**

ppm sulfate by $BaSO_4$ turbidimetry.

NO_3**

ppm nitrate and nitrite by colorimetry.

PO_4**

ppm orthophosphate by colorimetry. Based on least squares fit of standard curves. At very low concentration (<0.1 ppm), negative values may be quoted.

NH_3**

ppm ammonia by colorimetry.

pH*

pH

Eh*

Eh redox potential in millivolts versus standard calomel electrode.

O_2*

ppm dissolved oxygen by electrometer.

FILT*

Volume of water (ml) filtered.

RESIN*

Volume of filtered water (ml) treated with mixed anion-cation exchange resin.

TEMP*

Temperature, degrees Celsius.

TEAM*

A code designating the field sampling team.

Elemental Analyses

Preliminary uranium analyses were determined by neutron activation analysis. Calibration is thought to be very good for uranium at the part per million level. The following table compares SRL's determination of uranium in analyzed rock samples with accepted values for these samples.

At the part per trillion level the system background introduces a significant analytical uncertainty. For water samples our zero concentration intercept has a 90% probability of being in the range ±17 parts per trillion (for one liter of water). In general, reported values below about 20 ppt are not considered reliable.

Supplemental analysis of selected samples was performed by semi-quantitative emission spectroscopy. Analyzed rock standard AGV-1 is included for comparison in Table 9.

---

* Zeros in these columns indicate missing data.

** Zeros in these columns indicate values below detection limit (<0.02 meq/l H_2SO_4, <2 ppm $SO_4^{=}$, <0.02 ppm NO_3^-, <0.1 ppm PO_4^{3-}, <0.01 ppm NH_3^+).

SRL URANIUM ANALYSES OF ROCK STANDARDS

Rock Standard	*Uranium, ppm*		*n*	*Deviation, %*
	Recommended	*Found*		
AGV-1[a]	1.88	1.83	2	- 2.7
BCR-1[a]	1.74	1.65	2	- 5.2
G-2[a]	2.0	2.25	4	+12.5
GSP-1[a]	1.96	2.61	2	+33
SU-1[b]	0.97	0.99	3	+ 2.1
SY-2[b]	280	272	3	- 2.9
SY-3[b]	619	596	3	- 3.7

n = number of samples analyzed.
a. United States Geological Survey (USGS).
b. Spectroscopy Society of Canada.

LIST OF TABLES AND MAPS

Tables

1. Uranium Content of Stream Sediment, Suspended Solids, and Water Samples from the Lamar County, Georgia, Study Area

2. Uranium Content of Ground Water from the Lamar County, Georgia, Study Area

3. Field Data, Georgia Study Area

4. Tabulated Field Data, Georgia Study Area

5. Uranium Content of Stream Sediment from the Oconee County, South Carolina, Study Area

6. Uranium Content of Suspended Solids and Water from the Oconee County, South Carolina, Study Area

7. Field Data, Oconee, South Carolina, Study Area

8. Tabulated Field Data, Oconee, South Carolina, Study Area

9. Emission Spectrographic Analyses of -100 +200 Mesh Stream Sediment from the Oconee County, South Carolina, Study Area

10. Uranium Content of Stream Bottom Sediment, Suspended Solids, and Surface Water from the Brush Creek Study Area, Mitchell and Yancey Counties, North Carolina

11. Emission Spectrographic Analyses of -100 Mesh Stream Sediment from the Brush Creek Study Area, Mitchell and Yancey Counties, North Carolina

12. Field Data from the Brush Creek, North Carolina, Study Area

13. Tabulated Field Data from Brush Creek, North Carolina, Study Area

14. Uranium Content of Stream Bottom Sediment and Water from the North Harper Creek, Study Area, Avery County, North Carolina

15. Uranium Content of Ground Water from the North Harper Creek, Study Area, Avery County, North Carolina

16. Field Data from the North Harper North Carolina, Study Area

17. Tabulated Field Data from the North Harper North Carolina, Study Area

Maps

1. Lamar County, Georgia, Stream Sampling Sites

2. Lamar County, Georgia, Ground Water Sampling Sites

3. Oconee County, South Carolina, Stream and Ground Water Sampling Sites

4. Brush Creek, North Carolina, Stream Sampling Sites

5. Brush Creek, North Carolina, Ground Water Sampling Sites

6. North Harper, North Carolina, Stream Sampling Sites

7. North Harper, North Carolina, Ground Water Sampling Sites

TABLE 1

Uranium Content of Stream Sediment and Water Samples from Lamar County, Georgia, Study Area

Site Code	ppm U in Bottom Sediment			ppm U Suspended Solids	ppt U In Water
	40-100 Mesh	100-200 Mesh	-200 Mesh		
GAYA					
031	1.3	77			34
032		85	145	6.2	32
033	34	105	145	6.2	14
034					
035	25	140		3.0	50
035-1*	19		115		
036			67	5.4	
037	0.61	61	75	6.5	6
038	4.3	88	240	4.6	33
039	4.4	27	54	2.3	14
040			12	4.6	
GABA					
001			165	5.7	28
002		14	41	8.3	36
003	3.5	115	63	5.3	50
004		85	29	12	140
005		885		16	60
006		18	69	8.6	33
007		265	570	19	190
008			88	11	62
009		49	99	10	48
GABO					
001		7	20	3.5	30
002				5.8	
003		5		5.7	
004					
005		10	57	5.3	
GAFO					
001		145	260	15	37
GAYA					
001		28	47	4.5	19
002		210	105	6.0	
003			15	3.5	24

(continued)

TABLE 1, continued

Site Code	ppm U in Bottom Sediment 40-100 Mesh	100-200 Mesh	-200 Mesh	ppm U Suspended Solids	ppt U In Water
GAYA					
004		84	120	3.7	7
005		13	22	5.9	12
006		47	55	5.0	<**
007	0.52	5.4	18	6.2	8
008		105	34	3.3	58
009		15	22	5.0	16
010	9.7	24	35	4.3	19
011	1.5	11	39	2.9	12
012		11	11	3.7	12
013		260		6.8	21
014			460	4.9	18
015	2.5		165	4.8	<
016	6.2	125	285	3.8	26
017	32	110	97	4.0	<
018	61	74	76	9.2	9
019	3.8	20			24
020	3.7	16		10	55
021	3.3	35			53
022		52	76		48
023		115		7.6	19
024	1.1	18	105	6.2	
025	6.2	42			165
026	5.4	62	48	3.2	62
027	19			3.0	44
028	2.2	20	69	3.7	110
029	2.0	5.6	47	4.8	41
030		4.4	75		52

* This sample (35-1) is probably mislabeled and should be 36. For GAYA 036 read -40 +100 mesh 19 ppm; -100 +200 67 ppm; and -200 mesh 115 ppm U.

** Negative value reported.

TABLE 2

Uranium Content of Ground Water from Lamar County, Georgia Study Area

Site Code	*U Ground Water ppt*
GAYA	
102	48
103	10
104	44
106	61
112	52
113	75
114	29
120	105
121	67
124	31
139	42
204	42
GABA	
202	52
204	56
206	220
209	100
GABO	
103	84

TABLE 3. Field Data, Georgia Study Area.

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```
SITE    =GABA001  LATITUDE= 33.0124 LONGITUD= 84.0200 SAMPDATE= 9/01/75 SAMPTIME=830      TEAMS   =K01      DUMMY   =0
PH      = 6.85000 EH      = 240.000 TEMP    = 20.5000 COND    = 60.0000 O2      = 7.75000 SO4     = 10.0417 PO4     = .928833
NO3     = .104713 NH3     = .049900 ALK     = .140000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 5.00000 STRDEPTH= 2.00000 VELOCITY= 1.00000 STRSHAPE=CHANN    STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =GREEN    STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=CLOUDY   STRRAIN =NO
          **********************************************************************


SITE    =GABA002  LATITUDE= 33.0290 LONGITUD= 84.0776 SAMPDATE= 9/01/75 SAMPTIME=1000     TEAMS   =K01      DUMMY   =0
PH      = 7.15000 EH      = 290.000 TEMP    = 22.0000 COND    = 150.000 O2      = 7.40000 SO4     =0.000000 PO4     = 2.86751
NO3     = .215200 NH3     = 1.04949 ALK     = .260000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 36.0000 STRDEPTH= 4.00000 VELOCITY= 1.00000 STRSHAPE=CHANN    STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =GREEN    STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=BROWNT
STRWEATH=         STRRAIN =NO
          **********************************************************************


SITE    =GABA003  LATITUDE= 33.0445 LONGITUD= 84.1114 SAMPDATE= 9/01/75 SAMPTIME=1120     TEAMS   =K01      DUMMY   =0
PH      = 6.80000 EH      = 445.000 TEMP    = 22.5000 COND    = 160.000 O2      = 6.90000 SO4     = 12.1868 PO4     = 2.86751
NO3     = .122549 NH3     = 1.27375 ALK     = .320000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 24.0000 STRDEPTH= 2.00000 VELOCITY= 1.00000 STRSHAPE=CHANN    STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =GREEN    STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=BROWNT
STRWEATH=CLOUDY   STRRAIN =NO
          **********************************************************************


SITE    =GABA004  LATITUDE= 33.0945 LONGITUD= 84.1226 SAMPDATE= 9/01/75 SAMPTIME=1245     TEAMS   =K01      DUMMY   =0
PH      = 7.20000 EH      = 410.000 TEMP    = 22.5000 COND    = 45.0000 O2      = 8.70000 SO4     = 10.9890 PO4     = .787261
NO3     = .082092 NH3     = .266977 ALK     = .120000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 16.0000 STRDEPTH= 1.00000 VELOCITY= 1.00000 STRSHAPE=CHANN    STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=BROWNT
STRWEATH=CLOUDY   STRRAIN =YES
          **********************************************************************


SITE    =GABA005  LATITUDE= 33.1201 LONGITUD= 84.1090 SAMPDATE= 9/01/75 SAMPTIME=920      TEAMS   =K01      DUMMY   =0
```


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PH      = 7.15000 EH      = 700.000 TEMP    = 26.5000 COND    = 50.0000 O2      = 8.00000 SO4     = 13.8932 PO4     = 1.09536
NO3     = .085175 NH3     = .060194 ALK     = .120000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 36.0000 STRDEPTH= 4.00000 VELOCITY= 2.00000 STRSHAPE=CHANN    STRBOTOM=ROCK
STRBOTOM=SANDGRAV STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=BROWNT
STRWEATH=         STRRAIN =YES
          **********************************************************************


SITE    =GABA006  LATITUDE= 33.1269 LONGITUD= 84.0498 SAMPDATE= 9/01/75 SAMPTIME=1125     TEAMS   =K01      DUMMY   =0
PH      = 6.85000 EH      = 1100.00 TEMP    = 23.5000 COND    = 60.0000 O2      = 7.50000 SO4     =0.000000 PO4     =-.101056
NO3     = .004141 NH3     = .193057 ALK     = 1.64000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 32.0000 STRDEPTH= 6.00000 VELOCITY= 2.00000 STRSHAPE=CHANN    STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=BROWNT
STRWEATH=         STRRAIN =YES
          **********************************************************************


SITE    =GABA007  LATITUDE= 33.1433 LONGITUD= 84.1436 SAMPDATE= 9/01/75 SAMPTIME=750      TEAMS   =K01      DUMMY   =0
PH      = 6.70000 EH      = 800.000 TEMP    = 24.5000 COND    = 55.0000 O2      = 6.90000 SO4     = 13.8932 PO4     = 1.02520
NO3     = .021597 NH3     = .146725 ALK     = .140000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 32.0000 STRDEPTH= 3.00000 VELOCITY= 2.00000 STRSHAPE=CHANN    STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=BROWNT
STRWEATH=CLOUDY   STRRAIN =YES
          **********************************************************************


SITE    =GABA008  LATITUDE= 33.2057 LONGITUD= 84.1297 SAMPDATE= 9/01/75 SAMPTIME=1420     TEAMS   =K01      DUMMY   =0
PH      = 6.80000 EH      = 600.000 TEMP    = 24.5000 COND    = 50.0000 O2      = 7.90000 SO4     =0.000000 PO4     = .131016
NO3     = .012683 NH3     = .039712 ALK     = .120000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 32.0000 STRDEPTH= 4.00000 VELOCITY= 2.00000 STRSHAPE=CHANN    STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=BROWNT
STRWEATH=         STRRAIN =YES
          **********************************************************************


SITE    =GABA009  LATITUDE= 33.2178 LONGITUD= 84.1832 SAMPDATE= 9/01/75 SAMPTIME=1530     TEAMS   =K01      DUMMY   =0
PH      = 6.95000 EH      = 750.000 TEMP    = 25.0000 COND    = 65.0000 O2      = 7.65000 SO4     = 13.0504 PO4     = .687510
```

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NO3     = .108150 NH3     = .292922 ALK     = .160000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 15.0000 STRDEPTH= 3.00000 VELOCITY= 2.00000 STRSHAPE=CHANN    STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=BROWNC
STRWEATH=         STRRAIN =YES
          **********************************************************************


SITE    =GABA101  LATITUDE= 33.0013 LONGITUD= 84.0203 SAMPDATE= 9/08/75 SAMPTIME=1505     TEAMS   =K01      DUMMY   =0
PH      = 5.40000 EH      = 300.000 TEMP    = 20.0000 COND    = 40.0000 O2      = 7.50000 SO4     =0.000000 PO4     = .736072
NO3     = .187828 NH3     = .019653 ALK     = .060000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=45       WELSCREN=0        WELAGE  =50       WELAGEP =5        WELTYPE =DUG
WELCASE =NO       WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =PLASTIC  WELPIPE =        WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =         WELACT  =        WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          **********************************************************************


SITE    =GABA102  LATITUDE= 33.0046 LONGITUD= 84.0694 SAMPDATE= 9/03/75 SAMPTIME=1745     TEAMS   =K01      DUMMY   =0
PH      = 4.60000 EH      = 400.000 TEMP    = 18.5000 COND    = 70.0000 O2      = 7.30000 SO4     = 14.9955 PO4     = 1.34375
NO3     = .718799 NH3     = .009777 ALK     = .020000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=30       WELSCREN=0        WELAGE  =38       WELAGEP =2        WELTYPE =DUG
WELCASE =NO       WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =PLASTIC  WELPIPE =        WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =        WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          **********************************************************************


SITE    =GABA103  LATITUDE= 33.0109 LONGITUD= 84.1206 SAMPDATE= 9/03/75 SAMPTIME=1400     TEAMS   =K01      DUMMY   =0
PH      = 5.65000 EH      = 300.000 TEMP    = 17.5000 COND    = 25.0000 O2      = 8.50000 SO4     =0.000000 PO4     = .117957
NO3     = .017092 NH3     =0.000000 ALK     = .200000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=50       WELSCREN=0        WELAGE  =4        WELAGEP =4        WELTYPE =DRILLED
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =OTHER    WELPIPE =        WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =        WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          **********************************************************************


SITE    =GABA104  LATITUDE= 33.0052 LONGITUD= 84.1023 SAMPDATE= 9/03/75 SAMPTIME=1520     TEAMS   =K01      DUMMY   =0
PH      = 4.80000 EH      = 320.000 TEMP    = 24.0000 COND    = 25.0000 O2      = 4.30000 SO4     =0.000000 PO4     = .514894
NO3     = .085175 NH3     = .049900 ALK     = .060000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
```


NURE MASTER FILE EDIT

```
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=9        WELSCREN=0        WELAGE  =61       WELAGEP =0        WELTYPE =DUG
WELCASE =NO       WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =GALV     WELPIPE =        WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=SLIGHTLY WELODOR =NONE     WELACT  =        WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          **********************************************************************


SITE    =GABA105  LATITUDE= 33.0086 LONGITUD= 84.0863 SAMPDATE= 9/03/75 SAMPTIME=1630     TEAMS   =K01      DUMMY   =0
PH      = 4.35000 EH      = 120.000 TEMP    = 18.0000 COND    = 45.0000 O2      = 1.10000 SO4     = 24.4393 PO4     = 1.34375
NO3     = .260941 NH3     = .019653 ALK     = .320000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=325      WELSCREN=0        WELAGE  =8        WELAGEP =8        WELTYPE =DRILLED
WELCASE =UNKNOWN  WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =         WELPIPE =        WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =        WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          **********************************************************************


SITE    =GABA106  LATITUDE= 33.0032 LONGITUD= 84.0599 SAMPDATE= 9/04/75 SAMPTIME=915      TEAMS   =K01      DUMMY   =0
PH      = 4.85000 EH      = 380.000 TEMP    = 21.5000 COND    = 190.000 O2      = 2.70000 SO4     = 7.55108 PO4     = .841376
NO3     = .576712 NH3     = .081116 ALK     = .020000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=30       WELSCREN=0        WELAGE  =50       WELAGEP =0        WELTYPE =DUG
WELCASE =UNKNOWN  WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =PLASTIC  WELPIPE =        WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =        WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          **********************************************************************


SITE    =GABA202  LATITUDE= 33.0281 LONGITUD= 84.0921 SAMPDATE= 9/15/75 SAMPTIME=1645     TEAMS   =K01      DUMMY   =0
PH      = 6.45000 EH      = 185.000 TEMP    = 17.9500 COND    = 65.0000 O2      = 7.88000 SO4     =0.000000 PO4     = .736072
NO3     =0.000000 NH3     =0.000000 ALK     = .340000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=35       WELSCREN=0        WELAGE  =2        WELAGEP =2        WELTYPE =DRILLED
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =PLASTIC  WELPIPE =        WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =        WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          **********************************************************************


SITE    =GABA204  LATITUDE= 33.0890 LONGITUD= 84.1161 SAMPDATE= 9/19/75 SAMPTIME=1830     TEAMS   =K01      DUMMY   =0
PH      = 5.60000 EH      = 230.000 TEMP    = 22.2000 COND    = 49.0000 O2      = 7.03000 SO4     = 16.0841 PO4     = .242527
NO3     = .203809 NH3     =0.000000 ALK     = .160000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=
```

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```
        =GROUND   WELOR   =WELL      WELDEPTH=48        WELSCREN=0         WELAGE  =3         WELAGEP =3         WELTYPE =DRILLED
WELCASE =YES      WELCLAS =PRIVATE   WELPOINT=AFTERSTO WELPIPE =PLASTIC   WELPIPE =          WELTREAT=          WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN    WELAPPER=CLEAR     WELODOR =NONE      WELACT  =          WELACT  =          WELACT  =
WELACT  =         WELACT  =FARM      WELFREQ =CONSTANT
          ********************************************************************

SITE    =GARA206  LATITUDE= 33.1192 LONGITUD= 84.0240 SAMPDATE= 9/20/75 SAMPTIME=915       TEAMS   =K01       DUMMY   =0
PH      = 7.15000 EH      = 165.000 TEMP    = 20.4100 COND    = 104.000 O2      = 1.23000 SO4     = 27.9154 PO4     = 1.82738
NO3     = .088305 NH3     = .292922 ALK     = .560000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL      WELDEPTH=0         WELSCREN=0         WELAGE  =0         WELAGEP =0         WELTYPE =DRILLED
WELCASE =         WELCLAS =PUBLIC    WELPOINT=AFTERSTO WELPIPE =          WELPIPE =          WELTREAT=          WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN    WELAPPER=CLEAR     WELODOR =NONE      WELACT  =          WELACT  =          WELACT  =
WELACT  =         WELACT  =FARM      WELFREQ =WEEKLY
          ********************************************************************

SITE    =GARA209  LATITUDE= 33.1353 LONGITUD= 84.1889 SAMPDATE= 9/20/75 SAMPTIME=1100      TEAMS   =K01       DUMMY   =0
PH      = 6.60000 EH      = 193.000 TEMP    = 17.1500 COND    = 200.000 O2      = 6.34000 SO4     = 9.03446 PO4     = .514894
NO3     = 2.88356 NH3     =0.000000 ALK     = .700000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL      WELDEPTH=50        WELSCREN=0         WELAGE  =5         WELAGEP =5         WELTYPE =DUG
WELCASE =YES      WELCLAS =PRIVATE   WELPOINT=AFTERSTO WELPIPE =PLASTIC   WELPIPE =          WELTREAT=          WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN    WELAPPER=CLEAR     WELODOR =NONE      WELACT  =          WELACT  =          WELACT  =
WELACT  =         WELACT  =DUMP      WELFREQ =CONSTANT
          ********************************************************************

SITE    =GARC001  LATITUDE= 32.8649 LONGITUD= 83.9952 SAMPDATE= 8/29/75 SAMPTIME=1700      TEAMS   =K01       DUMMY   =0
PH      = 7.25000 EH      = 260.000 TEMP    = 22.5000 COND    = 70.0000 O2      = 8.10000 SO4     = 3.30650 PO4     = .335727
NO3     = .028547 NH3     = .181266 ALK     = .200000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0         STRWIDTH= 30.0000 STRDEPTH= 2.00000 VELOCITY= 2.00000 STRSHAPE=CHANN     STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =ERODED    STRLEVEL=NORMAL    STRVEG  =MODERATE STRRELIF=GENTLE   STRPREC =NONE      STRACT  =
STRACT  =         STRACT  =          STRACT  =          STRACT  =FARM      STRSAMPW=          STRSAMPS=LEFT      STRCOLOR=
STRWEATH=LIGHT    STRPAIN =YES
          ********************************************************************

SITE    =GARC002  LATITUDE= 32.8666 LONGITUD= 83.8391 SAMPDATE= 8/30/75 SAMPTIME=1015      TEAMS   =K01       DUMMY   =0
PH      = 7.35000 EH      = 310.000 TEMP    = 22.5000 COND    = 90.0000 O2      = 8.40000 SO4     = 10.3632 PO4     = .711479
NO3     = .091483 NH3     = .019653 ALK     = .240000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0         STRWIDTH= 83.0000 STRDEPTH= 4.00000 VELOCITY= 2.00000 STRSHAPE=CHANN     STRBOTOM=SANDGRAV
```


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```
STRBOTOM=ROCK     STRBED  =ERODED    STRLEVEL=NORMAL    STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =GREEN     STRACT  =
STRACT  =         STRACT  =          STRACT  =          STRACT  =FARM      STRSAMPW=LEFT      STRSAMPS=LEFT      STRCOLOR=
STRWEATH=         STRPAIN =YES
          ********************************************************************

SITE    =GARC003  LATITUDE= 32.9074 LONGITUD= 83.9305 SAMPDATE= 9/03/75 SAMPTIME=1000      TEAMS   =K01       DUMMY   =0
PH      = 6.00000 EH      = 300.000 TEMP    = 23.0000 COND    = 60.0000 O2      = 8.70000 SO4     = 13.8932 PO4     = .597273
NO3     = .159179 NH3     = .049900 ALK     = .160000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0         STRWIDTH= 46.0000 STRDEPTH= 2.00000 VELOCITY= 2.00000 STRSHAPE=TRAP      STRBOTOM=
STRBOTOM=SANDGRAV STRBED  =DEPOSIT   STRLEVEL=NORMAL    STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =NONE      STRACT  =
STRACT  =         STRACT  =          STRACT  =          STRACT  =FARM      STRSAMPW=COMPOSIT STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=         STRPAIN =NO
          ********************************************************************

SITE    =GARD004  LATITUDE= 32.9057 LONGITUD= 83.8701 SAMPDATE= 8/30/75 SAMPTIME=830       TEAMS   =K01       DUMMY   =0
PH      = 7.20000 EH      = 290.000 TEMP    = 22.5000 COND    = 115.000 O2      = 7.70000 SO4     = 9.71364 PO4     = .597273
NO3     = .076063 NH3     = .029631 ALK     = .220000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0         STRWIDTH= 40.0000 STRDEPTH= 5.00000 VELOCITY= 3.00000 STRSHAPE=CHANN     STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =ERODED    STRLEVEL=NORMAL    STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =NONE      STRACT  =
STRACT  =         STRACT  =          STRACT  =          STRACT  =FARM      STRSAMPW=          STRSAMPS=LEFT      STRCOLOR=
STRWEATH=         STRPAIN =YES
          ********************************************************************

SITE    =GARE005  LATITUDE= 32.9192 LONGITUD= 83.9678 SAMPDATE= 8/29/75 SAMPTIME=1530      TEAMS   =K01       DUMMY   =0
PH      = 7.20000 EH      = 210.000 TEMP    = 23.0000 COND    = 40.0000 O2      = 8.20000 SO4     = 9.37821 PO4     = 2.21126
NO3     = .076063 NH3     = .029631 ALK     = .160000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0         STRWIDTH= 41.0000 STRDEPTH= 3.00000 VELOCITY= 1.00000 STRSHAPE=CHANN     STRBOTOM=ROCK
STRBOTOM=SANDGRAV STRBED  =DEPOSIT   STRLEVEL=NORMAL    STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =GREEN     STRACT  =
STRACT  =         STRACT  =          STRACT  =          STRACT  =FARM      STRSAMPW=          STRSAMPS=LEFT      STRCOLOR=
STRWEATH=LIGHT    STRPAIN =YES
          ********************************************************************

SITE    =GAR0103  LATITUDE= 32.8973 LONGITUD= 83.9319 SAMPDATE= 9/19/75 SAMPTIME=1620      TEAMS   =K01       DUMMY   =0
PH      = 4.94000 EH      = 244.000 TEMP    = 20.0100 COND    = 130.000 O2      = 5.91000 SO4     = 29.6239 PO4     = 1.34375
NO3     = .659827 NH3     =0.000000 ALK     = .140000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL      WELDEPTH=154       WELSCREN=0         WELAGE  =30        WELAGEP =3         WELTYPE =DRILLED
WELCASE =YES      WELCLAS =PRIVATE   WELPOINT=AFTERSTO WELPIPE =PLASTIC   WELPIPE =          WELTREAT=          WELTREAT=
```

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```
WELTREAT=NONE      WELUSE  =HUMAN    WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =          WELACT  =FARM     WELFREQ =CONSTANT
          ********************************************************************

SITE    =GAP0001  LATITUDE= 33.0034 LONGITUD= 83.9959 SAMPDATE= 8/26/75 SAMPTIME=820      TEAMS   =K01      DUMMY   =0
PH      = 7.10000 EH      = 360.000 TEMP    = 23.0000 COND    = 90.0000 O2      = 7.25000 SO4     = 8.31741 PO4     = .157687
NO3     = .173003 NH3     = .081116 ALK     = .180000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 39.0000 STRDEPTH= 3.00000 VELOCITY= 2.00000 STRSHAPE=CHANN    STRBOTOM=
STRBOTOM=SANDGRAV STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=BROWNC
STRWEATH=         STRRAIN =YES
          ********************************************************************

SITE    =GAYA001  LATITUDE= 32.7724 LONGITUD= 84.1009 SAMPDATE= 8/30/75 SAMPTIME=1445     TEAMS   =K01      DUMMY   =0
PH      = 7.65000 EH      = 630.000 TEMP    = 22.5000 COND    = 120.000 O2      = 8.25000 SO4     = 10.3632 PO4     = 1.44351
NO3     = .104713 NH3     = .039712 ALK     = .460000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 16.0000 STRDEPTH= 2.00000 VELOCITY= 1.00000 STRSHAPE=CHANN    STRBOTOM=
STRBOTOM=SANDGRAV STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=LOW      STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=LEFT     STRCOLOR=BROWNT
STRWEATH=         STRRAIN =YES
          ********************************************************************

SITE    =GAYA002  LATITUDE= 32.8440 LONGITUD= 84.1249 SAMPDATE= 9/08/75 SAMPTIME=930      TEAMS   =K01      DUMMY   =0
PH      = 6.50000 EH      = 160.000 TEMP    = 21.5000 COND    = 60.0000 O2      = 8.10000 SO4     = 17.1694 PO4     = .403383
NO3     = .082062 NH3     = .319576 ALK     = .160000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 30.0000 STRDEPTH= 2.00000 VELOCITY= 1.00000 STRSHAPE=CHANN    STRBOTOM=
STRBOTOM=SANDGRAV STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=LEFT     STRSAMPS=COMPOSIT STRCOLOR=BROWNT
STRWEATH=         STRRAIN =YES
          ********************************************************************

SITE    =GAYA003  LATITUDE= 32.8827 LONGITUD= 84.0227 SAMPDATE= 8/29/75 SAMPTIME=940      TEAMS   =K01      DUMMY   =0
PH      = 7.15000 EH      = 420.000 TEMP    = 21.5000 COND    = 50.0000 O2      = 7.90000 SO4     = 8.31741 PO4     = .787261
NO3     = .067339 NH3     = .039712 ALK     = .160000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 30.0000 STRDEPTH= 2.00000 VELOCITY= 1.00000 STRSHAPE=CHANN    STRBOTOM=
STRBOTOM=SANDGRAV STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=RIGHT    STRCOLOR=
```


NURE MASTER FILE EDIT

```
STRWEATH=CLOUDY   STRRAIN =YES
          ********************************************************************

SITE    =GAYA004  LATITUDE= 32.9109 LONGITUD= 84.0951 SAMPDATE= 8/28/75 SAMPTIME=1700     TEAMS   =K01      DUMMY   =0
PH      = 7.10000 EH      = 660.000 TEMP    = 22.5000 COND    = 55.0000 O2      = 8.10000 SO4     = 5.26868 PO4     = .575996
NO3     = .050931 NH3     = .039712 ALK     = .160000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 30.0000 STRDEPTH= 2.00000 VELOCITY= 2.00000 STRSHAPE=CHANN    STRBOTOM=
STRBOTOM=SANDGRAV STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=RIGHT    STRSAMPS=RIGHT    STRCOLOR=
STRWEATH=         STRRAIN =NO
          ********************************************************************

SITE    =GAYA005  LATITUDE= 32.9163 LONGITUD= 84.1713 SAMPDATE= 8/27/75 SAMPTIME=1220     TEAMS   =K01      DUMMY   =0
PH      = 7.00000 EH      = 480.000 TEMP    = 23.5000 COND    = 90.0000 O2      = 6.90000 SO4     = 4.06002 PO4     = .055233
NO3     = .043195 NH3     = 1.66319 ALK     = .360000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 3.00000 STRDEPTH= 1.00000 VELOCITY= 1.00000 STRSHAPE=OTHER    STRBOTOM=SAND
STRBOTOM=SILT     STRBED  =ERODED   STRLEVEL=HIGH     STRVEG  =         STRRELIF=LOW      STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=         STRCOLOR=BROWNC
STRWEATH=         STRRAIN =NO
          ********************************************************************

SITE    =GAYA006  LATITUDE= 32.9233 LONGITUD= 84.1178 SAMPDATE= 8/27/75 SAMPTIME=1900     TEAMS   =K01      DUMMY   =0
PH      = 6.90000 EH      = 595.000 TEMP    = 25.0000 COND    = 50.0000 O2      = 7.15000 SO4     = 5.78668 PO4     = .959875
NO3     = .130142 NH3     = .192498 ALK     = .160000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 30.0000 STRDEPTH= 3.00000 VELOCITY= 2.00000 STRSHAPE=CHANN    STRBOTOM=
STRBOTOM=SAND     STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=BROWNT
STRWEATH=         STRRAIN =NO
          ********************************************************************

SITE    =GAYA007  LATITUDE= 32.9144 LONGITUD= 84.0373 SAMPDATE= 8/29/75 SAMPTIME=815      TEAMS   =K01      DUMMY   =0
PH      = 6.80000 EH      = 570.000 TEMP    = 21.5000 COND    = 50.0000 O2      = 7.90000 SO4     = 5.26868 PO4     = .272586
NO3     = .030917 NH3     = .039712 ALK     = .160000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 14.0000 STRDEPTH= 2.00000 VELOCITY= 1.00000 STRSHAPE=CHANN    STRBOTOM=
STRBOTOM=SANDGRAV STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=RIGHT    STRSAMPS=RIGHT    STRCOLOR=
STRWEATH=CLOUDY   STRRAIN =YES
```

NURE MASTER FILE EDIT

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**********************************************************************

SITE    =GAYA008  LATITUDE= 32.9290 LONGITUD= 84.1046 SAMPDATE= 8/27/75 SAMPTIME=1630     TEAMS   =K01      DUMMY   =0
PH      = 7.40000 EH      = 655.000 TEMP    = 28.5000 COND    = 60.0000 O2      = 7.30000 SO4     = 4.70018 PO4     = .007886
NO3     = .006243 NH3     = .146725 ALK     = .260000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 4.00000 STRDEPTH= 2.00000 VELOCITY= 2.00000 STRSHAPE=TRIANG   STRBOTOM=
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL  STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=         STRAIN  =NO
**********************************************************************

SITE    =GAYA009  LATITUDE= 32.9270 LONGITUD= 84.0593 SAMPDATE= 8/26/75 SAMPTIME=1900     TEAMS   =K01      DUMMY   =0
PH      = 6.80000 EH      = 665.000 TEMP    = 25.0000 COND    = 45.0000 O2      = 7.50000 SO4     = 6.71748 PO4     = .157687
NO3     = .115227 NH3     = .019653 ALK     = .180000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 15.0000 STRDEPTH= 2.00000 VELOCITY= 1.00000 STRSHAPE=CHANN    STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL  STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=         STRAIN  =YES
**********************************************************************

SITE    =GAYA010  LATITUDE= 32.9296 LONGITUD= 84.0559 SAMPDATE= 8/26/75 SAMPTIME=1530     TEAMS   =K01      DUMMY   =0
PH      = 6.90000 EH      = 570.000 TEMP    = 26.0000 COND    = 135.000 O2      = 6.70000 SO4     = 4.70018 PO4     = .736072
NO3     = .082092 NH3     = .102498 ALK     = .180000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 21.0000 STRDEPTH= 2.00000 VELOCITY= 1.00000 STRSHAPE=CHANN    STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL  STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=         STRAIN  =YES
**********************************************************************

SITE    =GAYA011  LATITUDE= 32.9229 LONGITUD= 84.0031 SAMPDATE= 8/29/75 SAMPTIME=1300     TEAMS   =K01      DUMMY   =0
PH      = 7.10000 EH      = 585.000 TEMP    = 23.0000 COND    = 50.0000 O2      = 8.10000 SO4     = 3.30650 PO4     = .514894
NO3     = .091483 NH3     = .039712 ALK     = .140000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 24.0000 STRDEPTH= 4.00000 VELOCITY= 2.00000 STRSHAPE=CHANN    STRBOTOM=
STRBOTOM=SAND     STRBED  =ERODED   STRLEVEL=NORMAL  STRVEG  =MODERATE STRRELIF=LOW      STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=CLOUDY   STRAIN  =NO
**********************************************************************
```


NURE MASTER FILE EDIT

```
SITE    =GAYA012  LATITUDE= 32.9425 LONGITUD= 84.1317 SAMPDATE= 8/28/75 SAMPTIME=1420     TEAMS   =K01      DUMMY   =0
PH      = 6.90000 EH      = 655.000 TEMP    = 23.0000 COND    = 55.0000 O2      = 7.70000 SO4     = 7.55108 PO4     = .335727
NO3     = .040660 NH3     = .091116 ALK     = .140000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 20.0000 STRDEPTH= 2.00000 VELOCITY= 1.00000 STRSHAPE=CHANN    STRBOTOM=
STRBOTOM=SANDGRAV STRBED  =DEPOSIT  STRLEVEL=NORMAL  STRVEG  =MODERATE STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=RIGHT    STRCOLOR=BROWNC
STRWEATH=         STRAIN  =NO
**********************************************************************

SITE    =GAYA013  LATITUDE= 32.9451 LONGITUD= 84.0759 SAMPDATE= 8/27/75 SAMPTIME=815      TEAMS   =K01      DUMMY   =0
PH      = 6.60000 EH      = 630.000 TEMP    = 21.0000 COND    = 45.0000 O2      = 8.20000 SO4     = 7.55108 PO4     = 1.55502
NO3     = .073113 NH3     = .039712 ALK     = .100000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 15.0000 STRDEPTH= 2.00000 VELOCITY= 2.00000 STRSHAPE=CHANN    STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL  STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=         STRAIN  =NO
**********************************************************************

SITE    =GAYA014  LATITUDE= 32.9474 LONGITUD= 84.0620 SAMPDATE= 8/27/75 SAMPTIME=1000     TEAMS   =K01      DUMMY   =0
PH      = 6.40000 EH      = 560.000 TEMP    = 20.5000 COND    = 40.0000 O2      = 8.30000 SO4     = 35.1007 PO4     = .257438
NO3     = .310377 NH3     = .039712 ALK     = .100000 FILT    =0.000000 RESIN   =0.000000 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 4.00000 STRDEPTH= 2.00000 VELOCITY= 4.00000 STRSHAPE=CHANN    STRBOTOM=
STRBOTOM=SAND     STRBED  =DEPOSIT  STRLEVEL=NORMAL  STRVEG  =MODERATE STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=         STRAIN  =NO
**********************************************************************

SITE    =GAYA015  LATITUDE= 32.9422 LONGITUD= 84.0471 SAMPDATE= 8/26/75 SAMPTIME=1430     TEAMS   =K01      DUMMY   =0
PH      = 7.00000 EH      = 700.000 TEMP    = 25.5000 COND    = 25.0000 O2      = 8.20000 SO4     = 3.30650 PO4     = .403383
NO3     = .240079 NH3     = .039712 ALK     = .100000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 10.0000 STRDEPTH= 2.00000 VELOCITY= 2.00000 STRSHAPE=CHANN    STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL  STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=         STRAIN  =YES
**********************************************************************

SITE    =GAYA016  LATITUDE= 32.9540 LONGITUD= 84.0433 SAMPDATE= 8/26/75 SAMPTIME=1230     TEAMS   =K01      DUMMY   =0
```

NURE MASTER FILE EDIT

```
PH      = 7.00000 EH      = 630.000 TEMP    = 28.5000 COND    = 55.0000 O2      = 6.50000 SO4     = 4.70018 PO4     = .641317
NO3     = .260941 NH3     = .266977 ALK     = .180000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 24.0000 STRDEPTH= 3.00000 VELOCITY= 1.00000 STRSHAPE=CHANN    STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=BROWNC
STRWEATH=         STRRAIN =YES
        ********************************************************************************

SITE    =GAYA017  LATITUDE= 32.9707 LONGITUD= 84.1361 SAMPDATE= 8/28/75 SAMPTIME=1250     TEAMS   =K01      DUMMY   =0
PH      = 6.75300 EH      = 575.000 TEMP    = 23.0000 COND    = 50.0000 O2      = 7.40000 SO4     = 6.71748 PO4     = .403383
NO3     = .035740 NH3     = .434157 ALK     = .160000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 16.0000 STRDEPTH= 3.00000 VELOCITY= 2.00000 STRSHAPE=CHANN    STRBOTOM=
STRBOTOM=SANDGRAV STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=CLOUDY   STRRAIN =NO
        ********************************************************************************

SITE    =GAYA018  LATITUDE= 32.9730 LONGITUD= 84.1243 SAMPDATE= 8/28/75 SAMPTIME=1115     TEAMS   =K01      DUMMY   =0
PH      = 6.50000 EH      = 630.000 TEMP    = 23.0000 COND    = 45.0000 O2      = 8.10000 SO4     = 19.2981 PO4     =-.101056
NO3     = .028547 NH3     = .266977 ALK     = .160000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 4.00000 STRDEPTH= 1.00000 VELOCITY= 1.00000 STRSHAPE=CHANN    STRBOTOM=
STRBOTOM=SAND     STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=LOW      STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=         STRCOLOR=BROWNT
STRWEATH=CLOUDY   STRRAIN =NO
        ********************************************************************************

SITE    =GAYA019  LATITUDE= 32.9646 LONGITUD= 84.0975 SAMPDATE= 9/16/75 SAMPTIME=1245     TEAMS   =K01      DUMMY   =0
PH      = 5.82000 EH      = 172.000 TEMP    = 18.6300 COND    = 28.0000 O2      = 7.05000 SO4     = 21.1152 PO4     = .242527
NO3     = .060680 NH3     =0.000000 ALK     = .080300 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 8.00000 STRDEPTH= 1.00000 VELOCITY= 1.00000 STRSHAPE=CHANN    STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=BROWNT
STRWEATH=CLOUDY   STRRAIN =YES
        ********************************************************************************

SITE    =GAYA020  LATITUDE= 32.9632 LONGITUD= 84.0904 SAMPDATE= 9/01/75 SAMPTIME=1840     TEAMS   =K01      DUMMY   =0
PH      = 6.35000 EH      = 630.000 TEMP    = 24.5000 COND    = 45.0000 O2      = 7.50000 SO4     = 12.7652 PO4     = .575996
```


NURE MASTER FILE EDIT

```
NO3     = .082092 NH3     = .081116 ALK     = .080000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 3.00000 STRDEPTH= 1.00000 VELOCITY= 1.00000 STRSHAPE=CHANN    STRBOTOM=SAND
STRBOTOM=CLAY     STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=         STRRAIN =NO
        ********************************************************************************

SITE    =GAYA021  LATITUDE= 32.9655 LONGITUD= 84.0813 SAMPDATE= 9/16/75 SAMPTIME=940      TEAMS   =K01      DUMMY   =0
PH      = 6.46000 EH      = 156.000 TEMP    = 18.3400 COND    = 29.0000 O2      = 7.52000 SO4     = 11.8930 PO4     = .534828
NO3     = .104713 NH3     = .153102 ALK     = .080000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 6.00000 STRDEPTH= 2.00000 VELOCITY= 1.00000 STRSHAPE=CHANN    STRBOTOM=
STRBOTOM=SAND     STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=GENTLE   STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=BROWNT
STRWEATH=CLOUDY   STRRAIN =YES
        ********************************************************************************

SITE    =GAYA022  LATITUDE= 32.9678 LONGITUD= 84.0474 SAMPDATE= 9/16/75 SAMPTIME=1635     TEAMS   =K01      DUMMY   =0
PH      = 6.38000 EH      = 106.000 TEMP    = 18.9100 COND    = 43.0000 O2      = 8.02000 SO4     = 16.0841 PO4     = .514894
NO3     = .056256 NH3     = .060194 ALK     = .140000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 15.0000 STRDEPTH= 1.00000 VELOCITY= 1.00000 STRSHAPE=CHANN    STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=BROWNT
STRWEATH=CLOUDY   STRRAIN =YES
        ********************************************************************************

SITE    =GAYA023  LATITUDE= 32.9678 LONGITUD= 84.0789 SAMPDATE= 9/17/75 SAMPTIME=900      TEAMS   =K01      DUMMY   =0
PH      = 6.23000 EH      = 162.000 TEMP    = 19.0600 COND    = 33.0000 O2      = 8.08000 SO4     = 21.1152 PO4     = .641317
NO3     = .061722 NH3     = .113369 ALK     = .140000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 30.0000 STRDEPTH= 2.00000 VELOCITY= 1.00000 STRSHAPE=TRIANG   STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=RIGHT    STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=LIGHT    STRRAIN =YES
        ********************************************************************************

SITE    =GAYA024  LATITUDE= 32.9694 LONGITUD= 84.0576 SAMPDATE= 9/08/75 SAMPTIME=1330     TEAMS   =K01      DUMMY   =0
PH      = 6.90000 EH      = 165.000 TEMP    = 22.0000 COND    = 40.0000 O2      = 8.30000 SO4     = 24.4393 PO4     = .787261
NO3     = .061722 NH3     = .241708 ALK     = .100000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
```

NURE MASTER FILE EDIT

```
ROCKTYPE=

        =STREAM   BASIN   =0         STRWIDTH= 20.0000 STRDEPTH= 2.00000 VELOCITY= 1.00000 STRSHAPE=CHANN     STRBOTOM=ROCK
STRBOTOM=SANDGRAV STRRED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =NONE      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=         STRRAIN =YES
          **********************************************************************

SITE    =GAYA025  LATITUDE= 32.9612 LONGITUD= 84.0464 SAMPDATE= 9/19/75 SAMPTIME=1210     TEAMS   =K01      DUMMY   =0
PH      = 6.88000 EH      = 104.000 TEMP    = 23.2300 COND    = 326.000 O2      = 5.46000 SO4     = 15.5408 PO4     = .641317
NO3     = .434627 NH3     = 3.13130 ALK     = .760000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0         STRWIDTH= 3.00000 STRDEPTH= 1.00000 VELOCITY= 1.00000 STRSHAPE=CHANN     STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRRED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =RED       STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=BROWNC
STRWEATH=CLOUDY   STRRAIN =YES
          **********************************************************************

SITE    =GAYA026  LATITUDE= 32.9661 LONGITUD= 84.0437 SAMPDATE= 9/19/75 SAMPTIME=1030     TEAMS   =K01      DUMMY   =0
PH      = 6.65000 EH      = 130.000 TEMP    = 21.8500 COND    = 81.0000 O2      = 6.34000 SO4     = 23.1240 PO4     = .421079
NO3     = .067339 NH3     = 1.47297 ALK     = .240000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0         STRWIDTH= 3.00000 STRDEPTH= 2.00000 VELOCITY= 1.00000 STRSHAPE=TRIANG    STRBOTOM=
STRBOTOM=SANDGRAV STRRED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =RED       STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=BROWNT
STRWEATH=CLOUDY   STRRAIN =YES
          **********************************************************************

SITE    =GAYA027  LATITUDE= 32.9687 LONGITUD= 84.0450 SAMPDATE= 9/19/75 SAMPTIME=1400     TEAMS   =K01      DUMMY   =0
PH      = 6.89000 EH      = 189.000 TEMP    = 23.5400 COND    = 49.0000 O2      = 7.77000 SO4     = 26.8560 PO4     = .736072
NO3     = .050931 NH3     = .039712 ALK     = .180000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0         STRWIDTH= 12.0000 STRDEPTH= 4.00000 VELOCITY= 2.00000 STRSHAPE=CHANN     STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRRED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =GREEN     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=BROWNT
STRWEATH=         STRRAIN =YES
          **********************************************************************

SITE    =GAYA028  LATITUDE= 32.9862 LONGITUD= 84.1090 SAMPDATE= 8/28/75 SAMPTIME=1000     TEAMS   =K01      DUMMY   =0
PH      = 6.77000 EH      = 695.000 TEMP    = 21.0000 COND    = 55.0000 O2      = 8.25000 SO4     = 5.26868 PO4     = .641317
NO3     = .061722 NH3     = .081116 ALK     = .120000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=
```


NURE MASTER FILE EDIT

```
        =STREAM   BASIN   =0         STRWIDTH= 12.0000 STRDEPTH= 2.00000 VELOCITY= 1.00000 STRSHAPE=CHANN     STRBOTOM=SAND
STRBOTOM=ROCK     STRRED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =RED       STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=CLOUDY   STRRAIN =NO
          **********************************************************************

SITE    =GAYA029  LATITUDE= 32.9862 LONGITUD= 84.0884 SAMPDATE= 9/02/75 SAMPTIME=1400     TEAMS   =K01      DUMMY   =0
PH      = 6.70000 EH      = 540.000 TEMP    = 21.5000 COND    = 285.000 O2      = .200000 SO4     =0.000000 PO4     = .991972
NO3     = .004141 NH3     = 1.34381 ALK     = .920000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0         STRWIDTH= 5.00000 STRDEPTH= 2.00000 VELOCITY=0.000000 STRSHAPE=CHANN     STRBOTOM=SAND
STRBOTOM=SILT     STRRED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=GENTLE   STRPREC =RED       STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=BROWNT
STRWEATH=         STRRAIN =NO
          **********************************************************************

SITE    =GAYA030  LATITUDE= 32.9799 LONGITUD= 84.0982 SAMPDATE= 9/18/75 SAMPTIME=1830     TEAMS   =K01      DUMMY   =0
PH      = 6.05000 EH      = 230.000 TEMP    = 23.3100 COND    = 46.0000 O2      = 5.90000 SO4     = 30.8544 PO4     = 1.02520
NO3     = .050931 NH3     = .279863 ALK     = .140000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0         STRWIDTH= 4.00000 STRDEPTH= 1.00000 VELOCITY= 1.00000 STRSHAPE=CHANN     STRBOTOM=SAND
STRBOTOM=SILT     STRRED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =RED       STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=RIGHT    STRSAMPS=COMPOSIT STRCOLOR=BROWNT
STRWEATH=LIGHT    STRRAIN =YES
          **********************************************************************

SITE    =GAYA031  LATITUDE= 32.9781 LONGITUD= 84.0985 SAMPDATE= 9/18/75 SAMPTIME=1930     TEAMS   =K01      DUMMY   =0
PH      = 6.53000 EH      = 250.000 TEMP    = 21.7100 COND    = 48.0000 O2      = 6.89000 SO4     = 32.8631 PO4     = .534828
NO3     = .017052 NH3     =0.000000 ALK     = .080000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0         STRWIDTH= 4.00000 STRDEPTH= 1.00000 VELOCITY= 1.00000 STRSHAPE=TRIANG    STRBOTOM=SAND
STRBOTOM=ROCK     STRRED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =NONE      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=LIGHT    STRRAIN =YES
          **********************************************************************

SITE    =GAYA032  LATITUDE= 32.9804 LONGITUD= 84.0860 SAMPDATE= 9/18/75 SAMPTIME=1700     TEAMS   =K01      DUMMY   =0
PH      = 6.11000 EH      = 185.000 TEMP    = 20.6700 COND    = 52.0000 O2      = 6.75000 SO4     = 19.2981 PO4     = .597273
NO3     = .115227 NH3     = .102498 ALK     = .140000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0         STRWIDTH= 3.00000 STRDEPTH= .500000 VELOCITY= 1.00000 STRSHAPE=TRIANG    STRBOTOM=
```

NURE MASTER FILE EDIT

```
STRBOTOM=SAND     STRBED  =DEPOSIT  STRLEVEL=HIGH     STRVEG  =MODERATE STRRELIF=FLAT     STRPREC =          STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM      STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=CLOUDY   STRRAIN =YES
        ********************************************************************************


SITE    =GAYA033  LATITUDE= 32.9756 LONGITUD= 84.0853 SAMPDATE= 9/17/75 SAMPTIME=1200     TEAMS   =KO1      DUMMY   =0
PH      = 6.65000 EH      = 174.000 TEMP    = 19.1300 COND    = 35.0000 O2      = 8.19000 SO4     =0.000000 PO4     = .352193
NO3     = .126310 NH3     =0.000000 ALK     = .120000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 3.00000 STRDEPTH= 1.00000 VELOCITY= 1.00000 STRSHAPE=TRIANG   STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM      STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=LIGHT    STRRAIN =YES
        ********************************************************************************


SITE    =GAYA034  LATITUDE= 32.9753 LONGITUD= 84.0870 SAMPDATE= 9/17/75 SAMPTIME=1400     TEAMS   =KO1      DUMMY   =0
PH      = 6.92000 EH      = 564.000 TEMP    = 20.2600 COND    = 47.0000 O2      = 8.04000 SO4     = 18.6171 PO4     = .199157
NO3     = .097591 NH3     = .229316 ALK     = .160000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 18.0000 STRDEPTH= 2.00000 VELOCITY= 1.00000 STRSHAPE=CHANN    STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM      STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=LIGHT    STRRAIN =YES
        ********************************************************************************


SITE    =GAYA035  LATITUDE= 32.9713 LONGITUD= 84.0850 SAMPDATE= 9/16/75 SAMPTIME=1510     TEAMS   =KO1      DUMMY   =0
PH      = 6.35000 EH      = 164.000 TEMP    = 19.2500 COND    = 43.0000 O2      = 7.90000 SO4     = 9.03446 PO4     = .185132
NO3     = .045741 NH3     = .039712 ALK     = .160000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 20.0000 STRDEPTH= 2.00000 VELOCITY= 1.00000 STRSHAPE=CHANN    STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM      STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=BROWNT
STRWEATH=CLOUDY   STRRAIN =YES
        ********************************************************************************


SITE    =GAYA036  LATITUDE= 33.0017 LONGITUD= 84.0934 SAMPDATE= 9/08/75 SAMPTIME=1700     TEAMS   =KO1      DUMMY   =0
PH      = 6.70000 EH      = 120.000 TEMP    = 25.0000 COND    = 50.0000 O2      = 7.40000 SO4     = 33.5827 PO4     = 1.17114
NO3     = .073113 NH3     = .266977 ALK     = .120000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 10.0000 STRDEPTH= 2.00000 VELOCITY= 1.00000 STRSHAPE=CHANN    STRBOTOM=
STRBOTOM=SAND     STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
```


NURE MASTER FILE EDIT

```
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM      STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=         STRRAIN =NO
        ********************************************************************************


SITE    =GAYA037  LATITUDE= 32.9994 LONGITUD= 84.0813 SAMPDATE= 8/30/75 SAMPTIME=1745     TEAMS   =KO1      DUMMY   =0
PH      = 6.90000 EH      = 335.000 TEMP    = 23.0000 COND    = 55.0000 O2      = 7.80000 SO4     = 33.5827 PO4     = .242527
NO3     = .020804 NH3     = .029717 ALK     = .120000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 10.0000 STRDEPTH= 2.00000 VELOCITY= 1.00000 STRSHAPE=CHANN    STRBOTOM=
STRBOTOM=SANDGRAV STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM      STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=BROWNT
STRWEATH=         STRRAIN =NO
        ********************************************************************************


SITE    =GAYA038  LATITUDE= 32.9882 LONGITUD= 84.0752 SAMPDATE= 8/30/75 SAMPTIME=1635     TEAMS   =KO1      DUMMY   =0
PH      = 6.20000 EH      = 645.000 TEMP    = 21.5000 COND    = 55.0000 O2      = 7.35000 SO4     = 13.0504 PO4     = 3.52375
NO3     = .067339 NH3     = .124358 ALK     = .120000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 15.0000 STRDEPTH= 2.00000 VELOCITY=0.000000 STRSHAPE=CHANN    STRBOTOM=
STRBOTOM=SAND     STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=LOW      STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM      STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=BROWNT
STRWEATH=         STRRAIN =YES
        ********************************************************************************


SITE    =GAYA039  LATITUDE= 32.9879 LONGITUD= 84.0691 SAMPDATE= 9/02/75 SAMPTIME=1100     TEAMS   =KO1      DUMMY   =0
PH      = 6.70000 EH      = 535.000 TEMP    = 26.0000 COND    = 55.0000 O2      = 6.50000 SO4     = 13.3333 PO4     = .575996
NO3     = .012683 NH3     = .193057 ALK     = .140000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 5.00000 STRDEPTH= 2.00000 VELOCITY= 1.00000 STRSHAPE=TRIANG   STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM      STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=BROWNT
STRWEATH=         STRRAIN =NO
        ********************************************************************************


SITE    =GAYA040  LATITUDE= 32.9856 LONGITUD= 84.0640 SAMPDATE= 9/02/75 SAMPTIME=755      TEAMS   =KO1      DUMMY   =0
PH      = 7.05000 EH      = 680.000 TEMP    = 21.0000 COND    = 55.0000 O2      = 8.90000 SO4     = 12.7652 PO4     = 2.33768
NO3     = .070206 NH3     = .081116 ALK     = .120000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 20.0000 STRDEPTH= 2.00000 VELOCITY= 1.00000 STRSHAPE=CHANN    STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM      STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=BROWNT
```

NURE MASTER FILE EDIT

```
STRHEATH=          STRMAIN =NO
          **********************************************************************


SITE    =GAYA102  LATITUDE= 32.8500 LONGITUD= 84.1118 SAMPDATE= 9/08/75 SAMPTIME=825      TEAMS   =K01      DUMMY   =0
PH      = 6.60000 EH      = 14.0000 TEMP    = 23.5000 COND    = 100.000 O2      = .500000 SO4     = 15.5408 PO4     = .898773
NO3     = .045741 NH3     = .039712 ALK     = .280000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=185      WELSCREN=0        WELAGE  =11       WELAGEP =11       WELTYPE =DRILLED
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =GALV     WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          **********************************************************************


SITE    =GAYA103  LATITUDE= 32.8816 LONGITUD= 84.0119 SAMPDATE= 8/29/75 SAMPTIME=1040     TEAMS   =K01      DUMMY   =0
PH      = 5.65000 EH      = 400.000 TEMP    = 18.2500 COND    = 35.0000 O2      = 7.10000 SO4     = 8.31741 PO4     = 1.68144
NO3     = .118655 NH3     = .009777 ALK     = .060000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=30       WELSCREN=0        WELAGE  =52       WELAGEP =0        WELTYPE =DUG
WELCASE =NO       WELCLAS =PRIVATE  WELPOINT=WELL     WELPIPE =OTHER    WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          **********************************************************************


SITE    =GAYA104  LATITUDE= 32.9353 LONGITUD= 84.0850 SAMPDATE= 9/05/75 SAMPTIME=1645     TEAMS   =K01      DUMMY   =0
PH      = 5.35000 EH      = 300.000 TEMP    = 24.0000 COND    = 60.0000 O2      = 6.80000 SO4     = 12.1868 PO4     = .597273
NO3     = .073113 NH3     = .124358 ALK     = .060000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=30       WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =DUG
WELCASE =NO       WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =         WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          **********************************************************************


SITE    =GAYA105  LATITUDE= 32.9129 LONGITUD= 84.1669 SAMPDATE= 8/27/75 SAMPTIME=1430     TEAMS   =K01      DUMMY   =0
PH      = 7.10000 EH      = 1000.00 TEMP    = 20.5000 COND    = 110.000 O2      = .200000 SO4     = 7.55108 PO4     =-.058972
NO3     = .050931 NH3     = .049900 ALK     = .720000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =
WELCASE =         WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =         WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
```


NURE MASTER FILE EDIT

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          **********************************************************************


SITE    =GAYA106  LATITUDE= 32.9201 LONGITUD= 84.1219 SAMPDATE= 9/06/75 SAMPTIME=1025     TEAMS   =K01      DUMMY   =0
PH      = 6.80000 EH      = 225.000 TEMP    = 20.0000 COND    = 65.0000 O2      = 8.20000 SO4     =0.000000 PO4     = .991972
NO3     = .104713 NH3     =0.000000 ALK     = .440000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=50       WELSCREN=0        WELAGE  =1        WELAGEP =1        WELTYPE =DUG
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          **********************************************************************


SITE    =GAYA107  LATITUDE= 32.9936 LONGITUD= 84.0349 SAMPDATE= 9/04/75 SAMPTIME=800      TEAMS   =K01      DUMMY   =0
PH      = 4.70000 EH      = 340.000 TEMP    = 19.0000 COND    = 130.000 O2      = 8.50000 SO4     =0.000000 PO4     = .257438
NO3     = .472000 NH3     =0.000000 ALK     = .020000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =
WELCASE =         WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =         WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          **********************************************************************


SITE    =GAYA108  LATITUDE= 32.9325 LONGITUD= 84.1124 SAMPDATE= 9/04/75 SAMPTIME=1745     TEAMS   =K01      DUMMY   =0
PH      = 6.00000 EH      = 265.000 TEMP    = 21.0000 COND    = 50.0000 O2      = 8.30000 SO4     =0.000000 PO4     = .959875
NO3     = .209425 NH3     =0.000000 ALK     = .060000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=72       WELSCREN=0        WELAGE  =11       WELAGEP =11       WELTYPE =DRILLED
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          **********************************************************************


SITE    =GAYA109  LATITUDE= 32.9351 LONGITUD= 84.0769 SAMPDATE= 9/05/75 SAMPTIME=1540     TEAMS   =K01      DUMMY   =0
PH      = 6.10000 EH      = 850.000 TEMP    = 17.0000 COND    = 180.000 O2      = .300000 SO4     =0.000000 PO4     = .687510
NO3     = .126310 NH3     = 1.56569 ALK     = .160000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=26       WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =DUG
WELCASE =NO       WELCLAS =PRIVATE  WELPOINT=WELL     WELPIPE =OTHER    WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          **********************************************************************
```

NURE MASTER FILE EDIT

```
SITE    =GAYA110  LATITUDE= 32.9345 LONGITUD= 84.0504 SAMPDATE= 9/05/75 SAMPTIME=1100     TEAMS   =K01      DUMMY   =0
PH      = 7.50000 EH      = 250.000 TEMP    = 18.5000 COND    = 260.000 O2      = 7.20000 SO4     = 5.78668 PO4     = 1.55502
NO3     = .073113 NH3     = .081116 ALK     = 1.18000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=           FORMAGE =
ROCKTYPE=

        =GROUND   WELOP   =WELL     WELDEPTH=0        WELSCRN=0        WELAGE  =2        WELAGEP =2        WELTYPE =UNKNOWN
WELCASE =UNKNOWN  WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =PLASTIC WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE    WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          **********************************************************************

SITE    =GAYA112  LATITUDE= 32.9417 LONGITUD= 84.1344 SAMPDATE= 9/06/75 SAMPTIME=835      TEAMS   =K01      DUMMY   =0
PH      = 5.35000 EH      = 310.000 TEMP    = 19.5000 COND    = 70.0000 O2      = 9.10000 SO4     = 6.26682 PO4     = .476246
NO3     = .260941 NH3     = .029631 ALK     = .020000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=           FORMAGE =
ROCKTYPE=

        =GROUND   WELOP   =WELL     WELDEPTH=155      WELSCRN=0        WELAGE  =6        WELAGEP =6        WELTYPE =DRILLED
WELCASE =NO       WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =PLASTIC WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE    WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          **********************************************************************

SITE    =GAYA113  LATITUDE= 32.9457 LONGITUD= 84.0742 SAMPDATE= 9/04/75 SAMPTIME=1450     TEAMS   =K01      DUMMY   =0
PH      = 7.60000 EH      =-900.000 TEMP    = 18.5000 COND    = 175.000 O2      = .250000 SO4     =0.000000 PO4     = .959875
NO3     = .026204 NH3     = .060194 ALK     = .800000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=           FORMAGE =
ROCKTYPE=

        =GROUND   WELOP   =WELL     WELDEPTH=107      WELSCRN=0        WELAGE  =18       WELAGEP =18       WELTYPE =DRILLED
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=PUMP     WELPIPE =        WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =WEAK    WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          **********************************************************************

SITE    =GAYA114  LATITUDE= 32.9477 LONGITUD= 84.0542 SAMPDATE= 9/05/75 SAMPTIME=1400     TEAMS   =K01      DUMMY   =0
PH      = 5.20000 EH      = 335.000 TEMP    = 18.5000 COND    = 80.0000 O2      = 8.00000 SO4     =0.000000 PO4     = .641317
NO3     = .659827 NH3     =0.000000 ALK     = .060000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=           FORMAGE =
ROCKTYPE=

        =GROUND   WELOP   =WELL     WELDEPTH=35       WELSCRN=0        WELAGE  =80       WELAGEP =6        WELTYPE =DUG
WELCASE =NO       WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =PLASTIC WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE    WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          **********************************************************************

SITE    =GAYA115  LATITUDE= 32.9328 LONGITUD= 84.0345 SAMPDATE= 9/05/75 SAMPTIME=1205     TEAMS   =K01      DUMMY   =0
```


NURE MASTER FILE EDIT

```
PH      = 5.60000 EH      = 285.000 TEMP    = 20.5000 COND    = 25.0000 O2      = 7.80000 SO4     = 2.33219 PO4     = 1.05963
NO3     = .045741 NH3     = .019653 ALK     = .080000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=           FORMAGE =
ROCKTYPE=

        =GROUND   WELOP   =WELL     WELDEPTH=285      WELSCRN=0        WELAGE  =10       WELAGEP =10       WELTYPE =DRILLED
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =PLASTIC WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE    WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          **********************************************************************

SITE    =GAYA116  LATITUDE= 32.9483 LONGITUD= 84.0437 SAMPDATE= 9/05/75 SAMPTIME=1000     TEAMS   =K01      DUMMY   =0
PH      = 5.80000 EH      = 240.000 TEMP    = 16.5000 COND    = 155.000 O2      = 5.50000 SO4     = 3.30650 PO4     = 2.21126
NO3     = .173093 NH3     = .039712 ALK     = .180000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=           FORMAGE =
ROCKTYPE=

        =GROUND   WELOP   =WELL     WELDEPTH=40       WELSCRN=0        WELAGE  =0        WELAGEP =0        WELTYPE =DUG
WELCASE =NO       WELCLAS =PRIVATE  WELPOINT=BEFORSTO WELPIPE =        WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE    WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          **********************************************************************

SITE    =GAYA117  LATITUDE= 32.9695 LONGITUD= 84.1297 SAMPDATE= 9/06/75 SAMPTIME=1640     TEAMS   =K01      DUMMY   =0
PH      = 4.70000 EH      = 370.000 TEMP    = 17.5000 COND    = 80.0000 O2      = 7.20000 SO4     =0.000000 PO4     = .303632
NO3     = .517741 NH3     =0.000000 ALK     =0.000000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=           FORMAGE =
ROCKTYPE=

        =GROUND   WELOP   =WELL     WELDEPTH=24       WELSCRN=0        WELAGE  =0        WELAGEP =0        WELTYPE =DUG
WELCASE =NO       WELCLAS =PRIVATE  WELPOINT=WELL     WELPIPE =OTHER   WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE    WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          **********************************************************************

SITE    =GAYA118  LATITUDE= 32.9801 LONGITUD= 84.1280 SAMPDATE= 9/06/75 SAMPTIME=1530     TEAMS   =K01      DUMMY   =0
PH      = 6.60000 EH      = 210.000 TEMP    = 19.0000 COND    = 75.0000 O2      = 9.30000 SO4     =0.000000 PO4     = .335727
NO3     = .094711 NH3     =0.000000 ALK     = .200000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=           FORMAGE =
ROCKTYPE=

        =GROUND   WELOP   =WELL     WELDEPTH=50       WELSCRN=0        WELAGE  =8        WELAGEP =8        WELTYPE =DRILLED
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =PLASTIC WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE    WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          **********************************************************************

SITE    =GAYA119  LATITUDE= 32.9566 LONGITUD= 84.1107 SAMPDATE= 9/02/75 SAMPTIME=1705     TEAMS   =K01      DUMMY   =0
PH      = 5.15000 EH      = 150.000 TEMP    = 20.0000 COND    = 100.000 O2      = 7.50000 SO4     = 14.1707 PO4     = .597273
```

NURE MASTER FILE EDIT

```
NO3     = .659427 NH3     =0.000000 ALK     =0.000000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=250      WELSCREN=0        WELAGE  =7        WELAGEP =7        WELTYPE =
WELCASE =         WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =         WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          ********************************************************************

SITE    =GAYA121  LATITUDE= 32.9632 LONGITUD= 84.0752 SAMPDATE= 9/08/75 SAMPTIME=1830     TEAMS   =KO1      DUMMY   =0
PH      = 7.10000 EH      = 240.000 TEMP    = 18.0000 COND    = 150.000 O2      = 7.10000 SO4     = 40.5936 PO4     = .641317
NO3     = .718790 NH3     =0.000000 ALK     = .540000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=42       WELSCREN=0        WELAGE  =17       WELAGEP =2        WELTYPE =DUG
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=PUMP     WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          ********************************************************************

SITE    =GAYA124  LATITUDE= 32.9787 LONGITUD= 84.0599 SAMPDATE= 9/04/75 SAMPTIME=1145     TEAMS   =KO1      DUMMY   =0
PH      = 5.30000 EH      = 340.000 TEMP    = 21.5000 COND    = 55.0000 O2      = 8.00000 SO4     = 5.78668 PO4     = .813933
NO3     = .061722 NH3     = .039712 ALK     = .060000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =DUG
WELCASE =NO       WELCLAS =         WELPOINT=AFTERSTO WELPIPE =         WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=         WELODOR =         WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =         WELFREQ =
          ********************************************************************

SITE    =GAYA125  LATITUDE= 32.9569 LONGITUD= 84.0603 SAMPDATE= 9/07/75 SAMPTIME=1030     TEAMS   =KO1      DUMMY   =0
PH      = 5.20000 EH      = 400.000 TEMP    = 18.5000 COND    = 40.0000 O2      = 8.30000 SO4     =0.000000 PO4     = .303632
NO3     = .321597 NH3     =0.000000 ALK     = .020000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=40       WELSCREN=0        WELAGE  =2        WELAGEP =0        WELTYPE =DRILLED
WELCASE =NO       WELCLAS =PRIVATE  WELPOINT=WELL     WELPIPE =         WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          ********************************************************************

SITE    =GAYA126  LATITUDE= 32.9589 LONGITUD= 84.0335 SAMPDATE= 9/05/75 SAMPTIME=900      TEAMS   =KO1      DUMMY   =0
PH      = 5.40000 EH      = 310.000 TEMP    = 19.5000 COND    = 50.0000 O2      = 4.90000 SO4     =0.000000 PO4     = .476246
NO3     = .276135 NH3     = .019653 ALK     = .020000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
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ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=22       WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =DUG
WELCASE =NO       WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =         WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          ********************************************************************

SITE    =GAYA127  LATITUDE= 32.9816 LONGITUD= 84.0416 SAMPDATE= 9/05/75 SAMPTIME=800      TEAMS   =KO1      DUMMY   =0
PH      = 4.90000 EH      = 350.000 TEMP    = 22.0000 COND    = 75.0000 O2      = 9.00000 SO4     = 5.78668 PO4     = .079826
NO3     = .375655 NH3     = .019653 ALK     = .020000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=47       WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =DUG
WELCASE =NO       WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          ********************************************************************

SITE    =GAYA128  LATITUDE= 32.9951 LONGITUD= 84.1087 SAMPDATE= 9/06/75 SAMPTIME=1410     TEAMS   =KO1      DUMMY   =0
PH      = 6.00000 EH      = 285.000 TEMP    = 19.0000 COND    = 100.000 O2      = 8.20000 SO4     = 9.03446 PO4     = .476246
NO3     = .210377 NH3     = .019653 ALK     = .160000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=45       WELSCREN=0        WELAGE  =20       WELAGEP =20       WELTYPE =DUG
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =         WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          ********************************************************************

SITE    =GAYA130  LATITUDE= 32.9819 LONGITUD= 84.1060 SAMPDATE= 9/05/75 SAMPTIME=1805     TEAMS   =KO1      DUMMY   =0
PH      = 5.15300 EH      = 330.000 TEMP    = 20.0000 COND    = 45.0000 O2      = 9.20000 SO4     = 10.9890 PO4     = 1.55502
NO3     = .472000 NH3     =0.000000 ALK     = .020000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =         WELDEPTH=0        WELSCREN=0        WELAGE  =20       WELAGEP =3        WELTYPE =DRILLED
WELCASE =NO       WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          ********************************************************************

SITE    =GAYA131  LATITUDE= 32.9689 LONGITUD= 84.1131 SAMPDATE= 9/08/75 SAMPTIME=1205     TEAMS   =KO1      DUMMY   =0
PH      = 5.50000 EH      = 310.000 TEMP    = 19.5000 COND    = 35.0000 O2      = 8.00000 SO4     = 18.9545 PO4     = 1.17114
NO3     = .221142 NH3     =0.000000 ALK     = .060000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=
```

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        =GROUND   WELOR   =WELL     WELDEPTH=180      WELSCREN=0        WELAGE  =15       WELAGEP =15       WELTYPE =DUG
WELCASE =YES      WELCLAS =SEMIPRIV WELPOINT=AFTERSTO WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          ********************************************************************

SITE    =GAYA133  LATITUDE=0.000000 LONGITUD=0.000000 SAMPDATE= 9/04/75 SAMPTIME=1300     TEAMS   =K01      DUMMY   =0
PH      = 6.60000 EH      = 190.000 TEMP    = 17.5000 COND    = 115.000 O2      = 6.50000 SO4     = 5.78668 PO4     = .287981
NO3     = .073113 NH3     =0.000000 ALK     = .260000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=24       WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =DUG
WELCASE =NO       WELCLAS =PRIVATE  WELPOINT=WELL     WELPIPE =         WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          ********************************************************************

SITE    =GAYA136  LATITUDE= 32.9922 LONGITUD= 84.1243 SAMPDATE= 9/06/75 SAMPTIME=1155     TEAMS   =K01      DUMMY   =0
PH      = 4.65000 EH      = 345.000 TEMP    = 16.5000 COND    = 450.000 O2      = 6.30000 SO4     = 7.55108 PO4     = 2.00000
NO3     = 4.00957 NH3     = .081116 ALK     =0.000000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=132      WELSCREN=0        WELAGE  =20       WELAGEP =10       WELTYPE =DRILLED
WELCASE =         WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          ********************************************************************

SITE    =GAYA137  LATITUDE= 32.9939 LONGITUD= 84.0853 SAMPDATE= 9/01/75 SAMPTIME=1550     TEAMS   =K01      DUMMY   =0
PH      = 6.00000 EH      = 165.000 TEMP    = 19.0000 COND    = 105.000 O2      = 7.80000 SO4     = 12.4774 PO4     = .421079
NO3     = .716799 NH3     = .009777 ALK     = .020000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=36       WELSCREN=0        WELAGE  =40       WELAGEP =8        WELTYPE =DUG
WELCASE =NO       WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          ********************************************************************

SITE    =GAYA138  LATITUDE= 32.9899 LONGITUD= 84.0745 SAMPDATE= 9/02/75 SAMPTIME=915      TEAMS   =K01      DUMMY   =0
PH      = 5.20000 EH      = 175.000 TEMP    = 17.5000 COND    = 220.000 O2      = 7.60000 SO4     =0.000000 PO4     = .841376
NO3     = .801914 NH3     = .039712 ALK     = .040000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=60       WELSCREN=0        WELAGE  =12       WELAGEP =1        WELTYPE =DRILLED
```


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WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =OTHER    WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          ********************************************************************

SITE    =GAYA139  LATITUDE= 32.9816 LONGITUD= 84.0721 SAMPDATE= 9/02/75 SAMPTIME=1245     TEAMS   =K01      DUMMY   =0
PH      = 4.50000 EH      = 210.000 TEMP    = 21.5000 COND    = 120.000 O2      = 6.75000 SO4     = 13.6142 PO4     = 1.34375
NO3     = .801914 NH3     = .060194 ALK     =0.000000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =
WELCASE =         WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =         WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          ********************************************************************

SITE    =GAYA140  LATITUDE= 32.9902 LONGITUD= 84.0599 SAMPDATE= 9/04/75 SAMPTIME=1030     TEAMS   =K01      DUMMY   =0
PH      = 5.40000 EH      = 335.000 TEMP    = 17.0000 COND    = 80.0000 O2      = 2.50000 SO4     = 5.78668 PO4     = .476246
NO3     = .130142 NH3     = .019653 ALK     = .060000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=31       WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =DUG
WELCASE =NO       WELCLAS =PRIVATE  WELPOINT=WELL     WELPIPE =OTHER    WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          ********************************************************************

SITE    =GAYA204  LATITUDE= 32.9020 LONGITUD= 84.0975 SAMPDATE= 9/18/75 SAMPTIME=1135     TEAMS   =K01      DUMMY   =0
PH      = 5.41000 EH      = 251.000 TEMP    = 17.5900 COND    = 67.0000 O2      = 3.15000 SO4     = 16.6266 PO4     = .619040
NO3     = .126310 NH3     = .102498 ALK     = .120000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=30       WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =DUG
WELCASE =NO       WELCLAS =PRIVATE  WELPOINT=WELL     WELPIPE =         WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          ********************************************************************
```

TABLE 4. Tabulated Field Data, Georgia Study Area.

FIELD MEASUREMENT DATA

SITE CODE	LAT	LONG	ALKA	COND	SO4	NO3	PO4	NH3	PH	EH	O2	FILT	RESIN	TEMP	TEAM
GABA001	33.0124	84.0209	0.14	60.	10.04	0.10	0.53	0.05	6.85	240.	7.75	2000.	1000.	20.50	K01
GABA002	33.0290	84.0776	0.26	150.	0.0	0.22	2.87	1.05	7.15	290.	7.40	2000.	1000.	22.00	K01
GABA003	33.0445	84.1114	0.32	160.	12.19	0.12	2.87	1.27	6.80	445.	6.90	2000.	1000.	22.50	K01
GABA004	33.0945	84.1226	0.12	45.	10.99	0.08	0.79	0.27	7.20	410.	8.70	2000.	1000.	22.50	K01
GABA005	33.1201	84.1090	0.12	50.	13.89	0.09	1.10	0.06	7.15	700.	8.00	2000.	1000.	26.50	K01
GABA006	33.1269	84.0498	1.64	60.	0.0	0.00	-0.10	0.19	6.85	1100.	7.50	2000.	1000.	23.50	K01
GABA007	33.1433	84.1436	0.14	55.	13.89	0.02	1.03	0.15	6.70	800.	6.90	2000.	1000.	24.50	K01
GABA008	33.2057	84.1247	0.12	50.	0.0	0.01	0.13	0.04	6.80	600.	7.90	2000.	1000.	24.50	K01
GABA009	33.2178	84.1832	0.16	65.	13.05	0.11	0.69	0.29	6.95	750.	7.65	2000.	1000.	25.00	K01
GABA101	33.0013	84.0203	0.08	40.	0.0	0.19	0.74	0.02	5.40	300.	7.50	2000.	1000.	20.00	K01
GABA102	33.0046	84.0694	0.02	70.	15.00	0.72	1.34	0.01	4.60	400.	7.30	2000.	1000.	18.50	K01
GABA103	33.0109	84.1206	0.20	25.	0.0	0.02	0.12	0.0	5.65	300.	8.50	2000.	1000.	17.50	K01
GABA104	33.0052	84.1023	0.06	25.	0.0	0.09	0.51	0.05	4.80	320.	4.30	2000.	1000.	24.00	K01
GABA105	33.0086	84.0863	0.32	45.	24.44	0.26	1.34	0.02	4.35	120.	1.10	2000.	1000.	18.00	K01
GABA106	33.0032	84.0599	0.02	190.	7.55	0.58	0.84	0.08	4.85	380.	2.70	2000.	1000.	21.50	K01
GABA202	33.0291	84.0921	0.34	65.	0.0	0.0	0.74	0.0	6.45	185.	7.88	2000.	1000.	17.95	K01
GABA204	33.0899	84.1161	0.16	49.	16.08	0.20	0.24	0.0	5.60	230.	7.03	2000.	1000.	22.20	K01
GABA206	33.1152	84.0240	0.56	104.	27.92	0.09	1.83	0.29	7.15	165.	1.23	2000.	1000.	20.41	K01
GABA209	33.1353	84.1889	0.70	200.	5.03	2.88	0.51	0.0	6.60	193.	6.34	2000.	1000.	17.15	K01
GAB0001	32.8649	83.9952	0.20	70.	3.31	0.03	0.34	0.18	7.25	260.	8.10	2000.	1000.	22.50	K01
GAB0002	32.8666	83.8391	0.24	90.	10.36	0.09	0.71	0.02	7.35	310.	8.40	2000.	1000.	22.50	K01
GAB0003	32.9074	83.9305	0.16	40.	13.89	0.16	0.60	0.05	6.00	360.	8.70	2000.	1000.	23.00	K01
GAB0004	32.9057	83.8701	0.22	115.	9.71	0.08	0.60	0.03	7.20	290.	7.70	2000.	1000.	22.50	K01
GAB0005	32.9192	83.9678	0.16	40.	9.38	0.08	2.21	0.03	7.20	210.	8.20	2000.	1000.	23.00	K01
GABC103	32.8973	83.9319	0.14	130.	29.62	0.66	1.34	0.0	4.94	244.	5.91	2000.	1000.	20.01	K01
GABC201	33.0034	83.9959	0.18	90.	8.32	0.17	0.16	0.08	7.10	360.	7.25	2000.	1000.	23.00	K01
GAYA001	32.7724	84.1109	0.46	120.	10.36	0.10	1.44	0.04	7.65	630.	8.25	2000.	1000.	22.50	K01
GAYA002	32.8440	84.1249	0.16	60.	17.17	0.08	0.40	0.32	6.90	160.	8.10	2000.	1000.	21.50	K01
GAYA003	32.8827	84.0227	0.16	50.	8.32	0.07	0.79	0.04	7.15	420.	7.90	2000.	1000.	21.50	K01
GAYA004	32.9104	84.0951	0.16	55.	5.27	0.05	0.58	0.04	7.10	660.	8.10	2000.	1000.	22.50	K01
GAYA005	32.9163	84.1713	0.36	90.	4.06	0.04	0.06	1.67	7.00	480.	6.90	2000.	1000.	23.50	K01
GAYA006	32.9233	84.1178	0.16	50.	5.79	0.13	0.96	0.10	6.90	585.	7.15	2000.	1000.	25.00	K01
GAYA007	32.9144	84.0373	0.16	50.	5.27	0.03	0.27	0.04	6.80	570.	7.90	2000.	1000.	21.50	K01
GAYA008	32.9290	84.1046	0.26	60.	4.70	0.01	0.01	0.15	7.40	655.	7.30	2000.	1000.	28.50	K01
GAYA009	32.9270	84.0593	0.18	45.	6.72	0.12	0.16	0.02	6.80	665.	7.50	2000.	1000.	25.00	K01
GAYA010	32.9296	84.0559	0.18	135.	4.70	0.08	0.74	0.10	6.90	570.	6.70	2000.	1000.	26.00	K01
GAYA011	32.9229	84.0031	0.14	50.	3.31	0.09	0.51	0.04	7.10	585.	8.10	2000.	1000.	23.00	K01
GAYA012	32.9425	84.1317	0.14	55.	7.55	0.04	0.34	0.08	6.90	655.	7.70	2000.	1000.	23.00	K01
GAYA013	32.9451	84.0759	0.10	45.	7.55	0.07	1.56	0.04	6.60	630.	8.20	2000.	1000.	21.00	K01
GAYA014	32.9474	84.0620	0.10	40.	35.11	0.31	0.26	0.04	6.40	580.	8.30	0.	0.	20.50	K01
GAYA015	32.9422	84.0471	0.10	25.	3.31	0.24	0.40	0.04	7.00	700.	8.20	2000.	1000.	25.50	K01
GAYA016	32.9540	84.0433	0.18	55.	4.70	0.26	0.64	0.27	7.00	630.	6.50	2000.	1000.	28.50	K01
GAYA017	32.9707	84.1361	0.16	50.	6.72	0.04	0.40	0.43	6.75	575.	7.40	2000.	1000.	23.00	K01
GAYA018	32.9730	84.1243	0.16	45.	19.30	0.03	-0.10	0.27	6.50	630.	8.10	2000.	1000.	23.00	K01
GAYA019	32.9646	84.0575	0.08	28.	21.12	0.04	0.24	0.0	5.82	172.	7.05	2000.	1000.	18.63	K01
GAYA020	32.9632	84.0904	0.08	45.	12.77	0.08	0.58	0.08	6.35	630.	7.50	2000.	1000.	24.50	K01
GAYA021	32.9655	84.0813	0.08	29.	11.89	0.10	0.53	0.16	6.46	156.	7.52	2000.	1000.	18.34	K01
GAYA022	32.9678	84.0474	0.14	43.	16.08	0.06	0.51	0.06	6.38	106.	8.02	2000.	1000.	18.91	K01
GAYA023	32.9678	84.0784	0.14	33.	21.12	0.06	0.64	0.11	6.23	162.	8.08	2000.	1000.	19.06	K01

FIELD MEASUREMENT DATA

SITE CODE	LAT	LONG	ALKA	COND	SO4	NO3	PO4	NH3	PH	EH	O2	FILT	RESIN	TEMP	TEAM
GAYA024	32.9694	84.0576	0.10	40.	24.44	0.06	0.79	0.24	6.90	165.	8.30	2000.	1000.	22.00	K01
GAYA025	32.9612	84.0464	0.76	326.	15.54	0.43	0.64	3.13	6.88	104.	5.46	2000.	1000.	23.23	K01
GAYA026	32.9661	84.0437	0.24	81.	23.12	0.07	0.42	1.47	6.65	130.	6.34	2000.	1000.	21.85	K01
GAYA027	32.9687	84.0450	0.18	49.	26.86	0.05	0.74	0.04	6.89	189.	7.77	2000.	1000.	23.54	K01
GAYA028	32.9862	84.1090	0.12	55.	5.27	0.06	0.64	0.08	6.70	655.	8.25	2000.	1000.	21.00	K01
GAYA029	32.9862	84.0884	0.92	295.	0.0	0.00	0.99	1.35	6.70	540.	0.20	2000.	1000.	21.50	K01
GAYA030	32.9799	84.0982	0.14	46.	30.85	0.05	1.03	0.28	6.05	238.	5.90	2000.	1000.	23.31	K01
GAYA031	32.9761	84.0985	0.08	48.	32.86	0.02	0.53	0.0	6.53	250.	6.89	2000.	1000.	21.71	K01
GAYA032	32.9804	84.0860	0.14	52.	19.30	0.12	0.60	0.10	6.11	185.	6.75	2000.	1000.	20.67	K01
GAYA033	32.9756	84.0853	0.12	35.	0.0	0.13	0.35	0.0	6.65	174.	8.19	2000.	1000.	19.13	K01
GAYA034	32.9753	84.0870	0.16	47.	18.62	0.10	0.20	0.23	6.92	564.	8.04	2000.	1000.	20.26	K01
GAYA035	32.9713	84.0850	0.16	43.	9.03	0.05	0.19	0.04	6.35	164.	7.90	2000.	1000.	19.25	K01
GAYA036	33.0017	84.0934	0.12	50.	33.58	0.07	1.17	0.27	6.70	120.	7.40	2000.	1000.	25.00	K01
GAYA037	32.9994	84.0813	0.12	55.	33.58	0.03	0.24	0.04	6.90	335.	7.80	2000.	1000.	23.00	K01
GAYA038	32.9882	84.0752	0.12	55.	13.05	0.07	3.52	0.12	6.20	645.	7.35	2000.	1000.	21.50	K01
GAYA039	32.9879	84.0691	0.14	55.	13.33	0.01	0.58	0.19	6.70	535.	6.50	2000.	1000.	26.00	K01
GAYA040	32.9856	84.0640	0.12	55.	12.77	0.07	2.34	0.08	7.05	680.	8.90	2000.	1000.	21.00	K01
GAYA102	32.8500	84.1118	0.28	100.	15.54	0.05	0.90	0.04	6.60	14.	0.50	2000.	1000.	23.50	K01
GAYA103	32.8816	84.0119	0.06	35.	8.32	0.12	1.68	0.01	5.65	400.	7.10	2000.	1000.	18.25	K01
GAYA104	32.9353	84.0850	0.06	60.	12.19	0.07	0.60	0.12	5.35	300.	6.80	2000.	1000.	24.00	K01
GAYA105	32.9129	84.1669	0.72	110.	7.55	0.05	-0.06	0.05	7.10	1000.	0.20	2000.	1000.	20.50	K01
GAYA106	32.9201	84.1219	0.44	65.	0.0	0.10	0.99	0.0	6.80	225.	8.20	2000.	1000.	20.00	K01
GAYA107	32.9936	84.0349	0.02	130.	0.0	0.47	0.26	0.0	4.70	340.	8.50	2000.	1000.	19.00	K01
GAYA108	32.9325	84.1124	0.06	50.	0.0	0.21	0.96	0.0	6.00	265.	8.30	2000.	1000.	21.00	K01
GAYA109	32.9351	84.0769	0.16	180.	0.0	0.13	0.69	1.57	6.10	850.	0.30	2000.	1000.	17.00	K01
GAYA110	32.9345	84.0504	1.18	260.	5.79	0.07	1.56	0.08	7.50	250.	7.20	2000.	1000.	18.50	K01
GAYA112	32.9417	84.1344	0.02	70.	6.27	0.26	0.48	0.03	5.35	310.	9.10	2000.	1000.	19.50	K01
GAYA113	32.9457	84.0742	0.80	175.	0.0	0.03	0.96	0.06	7.60	-900.	0.25	2000.	1000.	18.50	K01
GAYA114	32.9477	84.0542	0.06	80.	0.0	0.66	0.64	0.0	5.20	335.	8.00	2000.	1000.	18.50	K01
GAYA115	32.9328	84.0345	0.08	25.	2.33	0.05	1.06	0.02	5.60	285.	7.80	2000.	1000.	20.50	K01
GAYA116	32.9483	84.0437	0.18	155.	3.31	0.17	2.21	0.04	5.80	240.	5.50	2000.	1000.	16.50	K01
GAYA117	32.9695	84.1297	0.0	80.	0.0	0.52	0.30	0.0	4.70	370.	7.20	2000.	1000.	17.50	K01
GAYA118	32.9801	84.1280	0.20	75.	0.0	0.09	0.34	0.0	6.60	210.	9.30	2000.	1000.	19.00	K01
GAYA119	32.9566	84.1107	0.0	100.	14.17	0.66	0.60	0.0	5.15	150.	7.50	2000.	1000.	20.00	K01
GAYA121	32.9632	84.0752	0.54	150.	40.58	0.72	0.64	0.0	7.10	240.	7.10	2000.	1000.	18.00	K01
GAYA124	32.9787	84.0599	0.06	55.	5.79	0.06	0.81	0.04	5.30	340.	8.00	2000.	1000.	21.50	K01
GAYA125	32.9569	84.0603	0.02	40.	0.0	0.02	0.30	0.0	5.20	400.	8.30	2000.	1000.	18.50	K01
GAYA126	32.9536	84.0335	0.02	50.	0.0	0.28	0.48	0.02	5.40	310.	4.90	2000.	1000.	19.50	K01
GAYA127	32.9816	84.0416	0.02	75.	5.79	0.38	0.68	0.02	4.90	350.	9.00	2000.	1000.	22.00	K01
GAYA128	32.9951	84.1087	0.16	100.	9.03	0.31	0.48	0.02	6.00	285.	8.20	2000.	1000.	19.00	K01
GAYA130	32.9819	84.1060	0.02	45.	10.99	0.47	1.56	0.0	5.15	330.	9.20	2000.	1000.	20.00	K01
GAYA131	32.9669	84.1131	0.06	35.	18.95	0.22	1.17	0.0	5.50	310.	8.00	2000.	1000.	19.50	K01
GAYA133	0.0	0.0	0.26	115.	5.79	0.07	0.29	0.0	6.60	190.	6.50	2000.	1000.	17.50	K01
GAYA136	32.9922	84.1243	0.0	450.	7.55	4.01	2.00	0.08	4.65	345.	6.30	2000.	1000.	16.50	K01
GAYA137	32.9939	84.0953	0.02	105.	12.48	0.72	0.42	0.01	5.00	165.	7.80	2000.	1000.	19.00	K01
GAYA138	32.9899	84.0745	0.04	220.	0.0	0.80	0.84	0.04	5.20	175.	7.60	2000.	1000.	17.50	K01
GAYA139	32.9816	84.0721	0.0	130.	13.61	0.80	1.34	0.06	4.50	210.	6.75	2000.	1000.	21.50	K01
GAYA140	32.9902	84.0589	0.06	80.	5.79	0.13	0.48	0.02	5.40	335.	2.50	2000.	1000.	17.00	K01
GAYA204	32.9020	84.0975	0.12	67.	16.63	0.13	0.62	0.10	5.41	251.	3.15	2000.	1000.	17.59	K01

TABLE 5

Oconee County, South Carolina, Samples

Site Code	Magnetic Fraction[a]	Bottom Sediment, ppm U					
		40-100 Mesh		100-200 Mesh		-200 Mesh	
		A[b]	B[b]	A	B	A	B
SCTA							
001	29	9.8	9.8	36	54	21	81
002		0.8		17		120	
003				(5)			
003-1[c]	(46)			(58)			
005		1.2		2.6		8.7	
006	6.6	2.1	1	2.7	3.2	12	6.2
007		16	4.9	85	93	64	60
008		1.3	1.7	25	39	100	44
009	6.9	2.4		9.6		55	
010		0.8		1.9		23	
011		2.3		4.5		22	
012		9.6		32		22	
013		1.8		2.6		4.7	
014		0.8		16		11	
015		1.9		1.7		7.7	
016		1.9		4.7		18	
017		2.1		10		5	
018		1.7		5.9		22	
019		4.1		9		25	
020		1.6		2.1		5.6	
021		2.7		3.5		32	
022	2.9	8.7		32		28	
023		1.4		25		40	
024		1.1		3.1		3	
025		0.6		1.3		13	
026		3.7		16		61	
027		11	7.4	115	46	92	58
028		17		35		14	
029		1.1		9.6		3.7	
030		3.2		18		9.8	
031				4.2		16	
032	3.9	1.4	1.5	8.6		52	55
033		1.1		3.2		7.4	
034		2.4		11		5.6	
035		1.0		1.6		5.6	

(continued)

TABLE 5, continued

Site Code	Magnetic Fraction[a]	Bottom Sediment, ppm U					
		40-100 Mesh		100-200 Mesh		-200 Mesh	
		A[b]	B[b]	A	B	A	B
SCTA							
036		9.7	18	19	17	9.9	12
037		17	14	39	41	39	34
038		Not Collected					
039		Not Collected					
040		1.3		8		43	
041		2.4		6.4		9.0	
042		1.1		8.8		12	
043		6.4		30		54	
044		0.9		2.2		7.8	
045		1.0		2.2		10	
046		0.6		3.1		28	
047		4.8		31		43	
SCSA							
001		1.1	1.2	11	12	29	27
002		4.5		36	8.5	28	17

---

a. Magnetic fraction as collected in field, unsieved.

b. Column B represents a duplicate sample collected in the field.

c. See footnote to Table 6.

TABLE 6

Uranium Concentrations of Suspended Solids and Water from the Oconee County, South Carolina Study Area

Site Code	*Suspended Solids ppm U*	*Water ppt U*
SCTA		
001	6.6	88
002	5.9	31
003	9.6	60
003-1 [1]	6.6	21
005	4.3	54
006	5.3	45
007	11.4	47
008	6.6	34
009	7.8	53
010	6.1	36
011	3.8	29
012	2.8	29
013	4.7	69
014	5.9	44
015	8.2	46
016	3.2	36
017	4.7	81
018	5.7	39
019	6.4	34
020	2.9	10
021	3.2	67
022	6.8	*
023	4.3	
024	5.2	
025	5.6	
026	4.1	
027	3.4	
028	2.8	
029	3.7	
030	5.6	
031	5.6	
032	6.3	
033	5.8	
034	6.7	
035	6.8	
036	8.1	
037	6.4	
038	*	
039	*	
040	6.9	
041	2.9	
042	5.0	
043	4.4	
044	4.5	*
045	4.7	49
046	3.6	41
047	4.8	41
101**	0.7	25
102	6.4	51
103	1.1	25
104	5.0	73
105	1.7	38
SCSA		
001	5.2	46
002	8.2	86
101	2.7	43

* Data Unavailable.

** Ground water sites are numbered >100.

(1) Samples from sites SCTA003 and SCTA004 were all labeled SCTA003 in the field.

TABLE 7. Field Data, Oconee, South Carolina Study Area.

NURE MASTER FILE EDIT

```
SITE     =SCSA001  LATITUDE= 34.9813 LONGITUD= 82.9974 SAMPDATE= 9/03/75 SAMPTIME=930      TEAMS    =P01       DUMMY    =0
PH       = 6.90000 EH       = 363.000 TEMP     = 16.8600 COND     = 12.0000 O2       = 7.07000 SO4      = 9.37821 PO4      = .898773
NO3      = .017092 NH3      = .169614 ALK      = .100000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 7.00000 STRDEPTH= 1.50000 VELOCITY= 2.50000 STRSHAPE=TRAP     STRBOTOM=
STRBOTOM=SANDGRAV  STRBED   =ERODED    STRLEVEL=NORMAL   STRVEG   =FOREST   STRRELIF=MODERATE STRPREC =RED      STRACT   =
STRACT   =         STRACT   =         STRACT   =        STRACT   =        STRSAMPW=RIGHT    STRSAMPS=RIGHT    STRCOLOR=
STRWEATH=          STRRAIN  =NO
         ********************************************************************************

SITE     =SCSA002  LATITUDE= 34.9803 LONGITUD= 82.9980 SAMPDATE= 9/03/75 SAMPTIME=1000     TEAMS    =P01       DUMMY    =0
PH       = 5.22000 EH       = 351.000 TEMP     = 15.9600 COND     = 8.00000 O2       = 7.07000 SO4      = 7.55108 PO4      = .928833
NO3      = .014476 NH3      = .039712 ALK      = .140000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 6.00000 STRDEPTH= 1.50000 VELOCITY= 2.00000 STRSHAPE=TRAP     STRBOTOM=
STRBOTOM=SANDGRAV  STRBED   =ERODED    STRLEVEL=NORMAL   STRVEG   =FOREST   STRRELIF=MODERATE STRPREC =RED      STRACT   =
STRACT   =         STRACT   =         STRACT   =        STRACT   =        STRSAMPW=         STRSAMPS=RIGHT    STRCOLOR=
STRWEATH=          STRRAIN  =NO
         ********************************************************************************

SITE     =SCSA101  LATITUDE=0.000000 LONGITUD=0.000000 SAMPDATE=10/02/75 SAMPTIME=1400     TEAMS    =P01       DUMMY    =0
PH       = 5.85000 EH       = 904.000 TEMP     = 24.6300 COND     = 37.0000 O2       = 2.93000 SO4      =0.000000 PO4      = 1.90976
NO3      = .203809 NH3      =0.000000 ALK      = .140000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

         =GROUND   WELOP    =WELL     WELDEPTH=55       WELSCREN=0        WELAGE   =7        WELAGEP =7        WELTYPE =DRILLED
WELCASE  =NO       WELCLAS  =PRIVATE  WELPOINT=AFTERSTO WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=CHLOR     WELUSE   =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT   =         WELACT   =         WELACT   =
WELACT   =         WELACT   =RESID    WELERFQ =CONSTANT
         ********************************************************************************

SITE     =SCTA001  LATITUDE= 34.9711 LONGITUD= 83.0316 SAMPDATE= 9/01/75 SAMPTIME=1700     TEAMS    =P01       DUMMY    =0
PH       = 6.70000 EH       = 361.000 TEMP     = 17.6300 COND     = 12.0000 O2       = 6.07000 SO4      =0.000000 PO4      = .007886
NO3      = .045741 NH3      = .217079 ALK      = .100000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 3.00000 STRDEPTH= .300000 VELOCITY= 2.00000 STRSHAPE=RECT     STRBOTOM=NOTDET
STRBOTOM=SANDGRAV  STRBED   =DEPOSIT  STRLEVEL=NORMAL   STRVEG   =FOREST   STRRELIF=MODERATE STRPREC =RED      STRACT   =
STRACT   =         STRACT   =         STRACT   =        STRACT   =        STRSAMPW=COMPOSIT STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=          STRRAIN  =YES
         ********************************************************************************

SITE     =SCTA002  LATITUDE= 34.9774 LONGITUD= 83.0298 SAMPDATE= 9/08/75 SAMPTIME=1600     TEAMS    =P01       DUMMY    =0
```


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```
PH       = 6.02000 EH       = 339.000 TEMP     = 17.6600 COND     = 14.0000 O2       =0.000000 SO4      = 11.5957 PO4      = .185132
NO3      = .118855 NH3      = .319576 ALK      = .120000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 3.00000 STRDEPTH= .500000 VELOCITY= 1.50000 STRSHAPE=TRAP     STRBOTOM=
STRBOTOM=NOTDET    STRBED   =DEPOSIT  STRLEVEL=NORMAL   STRVEG   =FOREST   STRRELIF=MODERATE STRPREC =         STRACT   =
STRACT   =         STRACT   =         STRACT   =        STRACT   =        STRSAMPW=COMPOSIT STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=CLOUDY    STRRAIN  =YES
         ********************************************************************************

SITE     =SCTA003  LATITUDE= 34.9712 LONGITUD= 83.0269 SAMPDATE= 9/06/75 SAMPTIME=1400     TEAMS    =P01       DUMMY    =0
PH       = 6.74000 EH       = 392.000 TEMP     = 17.1200 COND     = 14.0000 O2       = 5.21000 SO4      = 12.4774 PO4      = .171309
NO3      = .061722 NH3      =0.000000 ALK      = .100000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 2.00000 STRDEPTH= .500000 VELOCITY= 2.00000 STRSHAPE=TRIANG    STRBOTOM=
STRBOTOM=NOTDET    STRBED   =DEPOSIT  STRLEVEL=NORMAL   STRVEG   =FOREST   STRRELIF=MODERATE STRPREC =RED      STRACT   =
STRACT   =         STRACT   =         STRACT   =        STRACT   =        STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=CLOUDY    STRRAIN  =NO
         ********************************************************************************

SITE     =SCTA005  LATITUDE= 34.9613 LONGITUD= 83.0212 SAMPDATE= 9/06/75 SAMPTIME=930      TEAMS    =P01       DUMMY    =0
PH       = 6.65000 EH       = 357.000 TEMP     = 17.0400 COND     = 17.0000 O2       = 6.14000 SO4      = 8.68129 PO4      = .457497
NO3      = .028547 NH3      = .015653 ALK      = .160000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 2.00000 STRDEPTH= .500000 VELOCITY= 1.50000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET    STRBED   =DEPOSIT  STRLEVEL=NORMAL   STRVEG   =FOREST   STRRELIF=GENTLE   STRPREC =         STRACT   =
STRACT   =         STRACT   =         STRACT   =        STRACT   =        STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=          STRRAIN  =NO
         ********************************************************************************

SITE     =SCTA006  LATITUDE= 34.9663 LONGITUD= 83.0137 SAMPDATE= 9/06/75 SAMPTIME=1200     TEAMS    =P01       DUMMY    =0
PH       = 6.99000 EH       = 402.000 TEMP     = 17.5200 COND     = 14.0000 O2       = 6.01000 SO4      = 8.68129 PO4      =-.090708
NO3      = .053576 NH3      = .029631 ALK      = .140000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 6.00000 STRDEPTH= 1.50000 VELOCITY= 2.50000 STRSHAPE=TRAP     STRBOTOM=
STRBOTOM=SILT      STRBED   =ERODED   STRLEVEL=NORMAL   STRVEG   =FOREST   STRRELIF=MODERATE STRPREC =RED      STRACT   =
STRACT   =         STRACT   =         STRACT   =        STRACT   =        STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=CLOUDY    STRRAIN  =NO
         ********************************************************************************

SITE     =SCTA007  LATITUDE= 34.9692 LONGITUD= 83.0099 SAMPDATE= 9/04/75 SAMPTIME=1300     TEAMS    =P01       DUMMY    =0
PH       = 6.76000 EH       = 440.000 TEMP     = 17.8000 COND     = 14.0000 O2       = 6.70000 SO4      =0.000000 PO4      = .421079
```

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```
NO3     = .045741 NH3     = .029631 ALK     = .140000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 4.00000 STRDEPTH= .500000 VELOCITY= 2.00000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=SANDGRAV STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=         STRRAIN =NO
        ********************************************************************************


SITE    =SCTA008  LATITUDE= 34.9723 LONGITUD= 83.0083 SAMPDATE= 9/04/75 SAMPTIME=1200     TEAMS   =P01      DUMMY   =0
PH      = 6.92000 EH      = 418.000 TEMP    = 18.7300 COND    = 17.0000 02      = 4.20000 SO4     =0.000000 PO4     =-.026132
NO3     = .004141 NH3     = .060194 ALK     = .160000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 8.00000 STRDEPTH= 2.00000 VELOCITY= .500000 STRSHAPE=CHANN    STRBOTOM=
STRBOTOM=SANDGRAV STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=         STRSAMPS=RIGHT    STRCOLOR=
STRWEATH=         STRRAIN =NO
        ********************************************************************************


SITE    =SCTA009  LATITUDE= 34.9674 LONGITUD= 83.0368 SAMPDATE= 9/02/75 SAMPTIME=1100     TEAMS   =P01      DUMMY   =0
PH      = 6.47000 EH      = 336.000 TEMP    = 17.1500 COND    = 1.00000 02      = 5.82000 SO4     = 4.70018 PO4     = 1.29756
NO3     = .021597 NH3     = .124358 ALK     = .080000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 2.00000 STRDEPTH= .500000 VELOCITY= 2.00000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=SANDGRAV STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=COMPOSIT STRSAMPS=         STRCOLOR=
STRWEATH=         STRRAIN =NO
        ********************************************************************************


SITE    =SCTA010  LATITUDE= 34.9563 LONGITUD= 83.0458 SAMPDATE= 9/10/75 SAMPTIME=1150     TEAMS   =P01      DUMMY   =0
PH      = 6.80000 EH      = 330.000 TEMP    = 18.1100 COND    = 13.0000 02      = 4.60000 SO4     =0.000000 PO4     = .105076
NO3     =0.000000 NH3     = .049900 ALK     = .120000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 10.0000 STRDEPTH= 2.00000 VELOCITY= 2.50000 STRSHAPE=TRAP     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=         STRRAIN =NO
        ********************************************************************************


SITE    =SCTA011  LATITUDE= 34.9561 LONGITUD= 83.0468 SAMPDATE= 9/10/75 SAMPTIME=1115     TEAMS   =P01      DUMMY   =0
PH      = 6.62000 EH      = 320.000 TEMP    = 17.9000 COND    = 13.0000 02      = 6.30000 SO4     = 7.14416 PO4     = .117957
NO3     = .035740 NH3     = .124358 ALK     = .140000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
```


NURE MASTER FILE EDIT

```
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 1.00000 STRDEPTH= .500000 VELOCITY= 2.00000 STRSHAPE=TRIANG   STRBOTOM=
STRBOTOM=NOTDET   STRBED  =ERODED   STRLEVEL=LOW      STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=COMPOSIT STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=         STRRAIN =NO
        ********************************************************************************


SITE    =SCTA012  LATITUDE= 34.9553 LONGITUD= 83.0508 SAMPDATE= 9/10/75 SAMPTIME=935      TEAMS   =P01      DUMMY   =0
PH      = 6.28000 EH      = 269.000 TEMP    = 18.0100 COND    = 17.0000 02      = 4.20000 SO4     = 11.5957 PO4     = .105076
NO3     = .033314 NH3     = .070598 ALK     = .140000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 2.00000 STRDEPTH= .300000 VELOCITY= 2.00000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=COMPOSIT STRSAMPS=COMPOSIT STRCOLOR=BROWNC
STRWEATH=         STRRAIN =NO
        ********************************************************************************


SITE    =SCTA013  LATITUDE= 34.9548 LONGITUD= 83.0517 SAMPDATE= 9/10/75 SAMPTIME=900      TEAMS   =P01      DUMMY   =0
PH      = 6.26000 EH      = 237.000 TEMP    = 18.2800 COND    = 16.0000 02      = 5.45000 SO4     = 4.70018 PO4     = .736072
NO3     = .091483 NH3     = .070598 ALK     = .160000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 3.00000 STRDEPTH= .300000 VELOCITY= 2.00000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=         STRRAIN =NO
        ********************************************************************************


SITE    =SCTA014  LATITUDE= 34.9497 LONGITUD= 83.0476 SAMPDATE= 9/10/75 SAMPTIME=1300     TEAMS   =P01      DUMMY   =0
PH      = 6.80000 EH      = 343.000 TEMP    = 18.7000 COND    = 14.0000 02      = 5.39000 SO4     = 10.3632 PO4     = .368950
NO3     = .043155 NH3     = .124358 ALK     = .140000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 12.0000 STRDEPTH= 2.50000 VELOCITY= 2.00000 STRSHAPE=TRAP     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=CLOUDY   STRRAIN =NO
        ********************************************************************************


SITE    =SCTA015  LATITUDE= 34.9497 LONGITUD= 83.0469 SAMPDATE= 9/10/75 SAMPTIME=1345     TEAMS   =P01      DUMMY   =0
PH      = 6.57000 EH      = 364.000 TEMP    = 18.0700 COND    = 18.0000 02      =0.000000 SO4     = 9.03446 PO4     = .227850
NO3     = .040680 NH3     = .113368 ALK     = .160000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=
```

NURE MASTER FILE EDIT

```
        =STREAM   BASIN   =0         STRWIDTH= 1.00000 STRDEPTH= .200000 VELOCITY= 2.00000 STRSHAPE=TRIANG   STRBOTOM=
STRBOTOM=NOTDET   STRBED  =ERODED   STRLEVEL=LOW      STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=COMPOSIT STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=CLOUDY   STRRAIN =NO
          **********************************************************************

SITE    =SCTA016  LATITUDE= 34.9408 LONGITUD= 83.0480 SAMPDATE= 9/03/75 SAMPTIME=1430     TEAMS   =P01      DUMMY   =0
PH      = 6.88000 EH      = 323.000 TEMP    = 19.4000 COND    = 15.0000 O2      = 6.77000 SO4     = 3.30650 PO4     = .476246
NO3     = .050931 NH3     = .060194 ALK     = .120000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0         STRWIDTH= 5.00000 STRDEPTH= .500000 VELOCITY= 2.50000 STRSHAPE=TRAP    STRBOTOM=
STRBOTOM=SANDGRAV STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=GENTLE   STRPREC =GREEN    STRACT  =FARM
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=RIGHT    STRSAMPS=RIGHT    STRCOLOR=
STRWEATH=         STRRAIN =NO
          **********************************************************************

SITE    =SCTA017  LATITUDE= 34.9058 LONGITUD= 83.0511 SAMPDATE= 9/05/75 SAMPTIME=1500     TEAMS   =P01      DUMMY   =0
PH      = 6.84000 EH      = 346.000 TEMP    = 22.5200 COND    = 19.0000 O2      = 4.50000 SO4     = 8.31741 PO4     = .213394
NO3     = .094711 NH3     = .091116 ALK     = .140000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0         STRWIDTH= 6.00000 STRDEPTH= 2.00000 VELOCITY= 1.50000 STRSHAPE=RECT    STRBOTOM=
STRBOTOM=SANDGRAV STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=GENTLE   STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =RESID    STRSAMPW=         STRSAMPS=RIGHT    STRCOLOR=
STRWEATH=         STRRAIN =NO
          **********************************************************************

SITE    =SCTA018  LATITUDE= 34.9359 LONGITUD= 83.0710 SAMPDATE= 9/05/75 SAMPTIME=900      TEAMS   =P01      DUMMY   =0
PH      = 6.83000 EH      = 390.000 TEMP    = 18.8700 COND    = 14.0000 O2      = 7.11000 SO4     = 6.26682 PO4     = .352193
NO3     = .043195 NH3     = .070598 ALK     = .120000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0         STRWIDTH= 6.00000 STRDEPTH= .500000 VELOCITY= 1.50000 STRSHAPE=CHANN    STRBOTOM=
STRBOTOM=SANDGRAV STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=LOW      STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =RESID    STRSAMPW=         STRSAMPS=LEFT     STRCOLOR=
STRWEATH=         STRRAIN =NO
          **********************************************************************

SITE    =SCTA019  LATITUDE= 34.9366 LONGITUD= 83.0693 SAMPDATE= 9/05/75 SAMPTIME=1300     TEAMS   =P01      DUMMY   =0
PH      = 5.98000 EH      = 233.000 TEMP    = 19.6200 COND    = 22.0000 O2      = 2.14000 SO4     =0.000000 PO4     = .242527
NO3     =0.000000 NH3     = .266977 ALK     = .200000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0         STRWIDTH= 1.00000 STRDEPTH= .200000 VELOCITY= .200000 STRSHAPE=CHANN    STRBOTOM=
```


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```
STRBOTOM=NOTDET   STRBED  =DEPOSIT  STRLEVEL=LOW      STRVEG  =MODERATE STRRELIF=LOW      STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =FARM     STRACT  =RESID    STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=BROWNC
STRWEATH=         STRRAIN =NO
          **********************************************************************

SITE    =SCTA020  LATITUDE= 34.9282 LONGITUD= 83.0678 SAMPDATE= 9/05/75 SAMPTIME=1100     TEAMS   =P01      DUMMY   =0
PH      = 6.68000 EH      = 411.000 TEMP    = 25.6700 COND    = 18.0000 O2      = 2.66000 SO4     = 13.3333 PO4     = 1.49762
NO3     = .035740 NH3     =0.000000 ALK     = .100000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0         STRWIDTH= 3.00000 STRDEPTH= 1.50000 VELOCITY= 1.00000 STRSHAPE=TRIANG   STRBOTOM=
STRBOTOM=SILT     STRBED  =ERODED   STRLEVEL=LOW      STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =RED      STRACT  =
STRACT  =         STRACT  =SEWAGE   STRACT  =FARM     STRACT  =RESID    STRSAMPW=         STRSAMPS=RIGHT    STRCOLOR=
STRWEATH=         STRRAIN =NO
          **********************************************************************

SITE    =SCTA021  LATITUDE= 34.9784 LONGITUD= 83.0066 SAMPDATE= 9/04/75 SAMPTIME=1130     TEAMS   =P01      DUMMY   =0
PH      = 6.71000 EH      = 354.000 TEMP    = 17.5300 COND    = 15.0000 O2      = 4.40000 SO4     = 13.6142 PO4     = .007886
NO3     = .040480 NH3     = .102498 ALK     = .120000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0         STRWIDTH= 1.00000 STRDEPTH= .200000 VELOCITY= 1.50000 STRSHAPE=RECT    STRBOTOM=
STRBOTOM=SANDGRAV STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=COMPOSIT STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=         STRRAIN =NO
          **********************************************************************

SITE    =SCTA022  LATITUDE= 34.9192 LONGITUD= 83.0477 SAMPDATE= 9/12/75 SAMPTIME=1200     TEAMS   =P01      DUMMY   =0
PH      = 5.97000 EH      = 261.000 TEMP    = 20.8000 COND    = 18.0000 O2      = 5.40000 SO4     = 21.8935 PO4     = .403383
NO3     = .268397 NH3     = .159614 ALK     = .140000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0         STRWIDTH= 15.0000 STRDEPTH= 2.50000 VELOCITY= 1.50000 STRSHAPE=TRAP    STRBOTOM=
STRBOTOM=GRAVEL   STRBED  =ERODED   STRLEVEL=HIGH     STRVEG  =SPARSE   STRRELIF=LOW      STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=         STRCOLOR=BROWNC
STRWEATH=         STRRAIN =YES
          **********************************************************************

SITE    =SCTA023  LATITUDE= 34.9834 LONGITUD= 83.0508 SAMPDATE= 9/06/75 SAMPTIME=1515     TEAMS   =P01      DUMMY   =0
PH      = 6.63000 EH      = 420.000 TEMP    = 22.1000 COND    = 19.0000 O2      = 4.80000 SO4     = 14.1707 PO4     = .079826
NO3     = .097991 NH3     = .193057 ALK     = .160000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0         STRWIDTH= 7.00000 STRDEPTH= 2.00000 VELOCITY= 1.50000 STRSHAPE=RECT    STRBOTOM=
STRBOTOM=SILT     STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =SPARSE   STRRELIF=LOW      STRPREC =RED      STRACT  =
```

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```
STRACT  =         STRACT  =         STRACT  =FARM     STRACT  =RESID    STRSAMPW=         STRSAMPS=RIGHT    STRCOLOR=BROWNC
STRWEATH=CLOUDY   STRRAIN =NO
          ********************************************************************************


SITE    =SCTA024  LATITUDE= 34.8816 LONGITUD= 83.0477 SAMPDATE= 9/04/75 SAMPTIME=1400     TEAMS   =P01      DUMMY   =0
PH      = 7.10000 EH      = 394.000 TEMP    = 21.8200 COND    = 43.0000 O2      = 4.20000 SO4     = 5.78668 PO4     =-.003589
NO3     = .070206 NH3     = .204995 ALK     = .320000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 4.00000 STRDEPTH= 1.50000 VELOCITY= 1.00000 STRSHAPE=CHANN    STRBOTOM=
STRBOTOM=NOTDET   STRRED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =SPARSE   STRRELIF=LOW      STRPREC =GREEN    STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=RIGHT    STRSAMPS=         STRCOLOR=BROWNC
STRWEATH=         STRRAIN =NO
          ********************************************************************************


SITE    =SCTA025  LATITUDE= 34.9264 LONGITUD= 83.0632 SAMPDATE= 9/05/75 SAMPTIME=1230     TEAMS   =P01      DUMMY   =0
PH      = 6.68000 EH      = 415.000 TEMP    = 18.4300 COND    = 17.0000 O2      = 5.57000 SO4     = 14.1707 PO4     = .242527
NO3     = .088305 NH3     =0.000000 ALK     = .120000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 5.00000 STRDEPTH= 1.00000 VELOCITY= 1.00000 STRSHAPE=CHANN    STRBOTOM=
STRBOTOM=NOTDET   STRRED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=GENTLE   STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =RESID    STRSAMPW=         STRSAMPS=LEFT     STRCOLOR=
STRWEATH=         STRRAIN =NO
          ********************************************************************************


SITE    =SCTA026  LATITUDE= 34.9201 LONGITUD= 83.0648 SAMPDATE= 9/05/75 SAMPTIME=1330     TEAMS   =P01      DUMMY   =0
PH      = 6.77000 EH      = 391.000 TEMP    = 23.2200 COND    = 19.0000 O2      = 5.40000 SO4     = 11.5957 PO4     = .352193
NO3     = .104713 NH3     =0.000000 ALK     = .140000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 7.00000 STRDEPTH= 2.00000 VELOCITY= 1.00000 STRSHAPE=TRAP     STRBOTOM=
STRBOTOM=NOTDET   STRRED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =RESID    STRSAMPW=         STRSAMPS=LEFT     STRCOLOR=
STRWEATH=         STRRAIN =NO
          ********************************************************************************


SITE    =SCTA027  LATITUDE= 34.9152 LONGITUD= 83.0705 SAMPDATE= 9/12/75 SAMPTIME=1515     TEAMS   =P01      DUMMY   =0
PH      = 6.35000 EH      = 285.000 TEMP    = 20.1800 COND    = 14.0000 O2      = 6.05000 SO4     = 3.30650 PO4     = .144257
NO3     = .050931 NH3     =0.000000 ALK     = .120000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 6.00000 STRDEPTH= 2.00000 VELOCITY= 2.00000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET   STRRED  =DEPOSIT  STRLEVEL=HIGH     STRVEG  =MODERATE STRRELIF=LOW      STRPREC =         STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=         STRSAMPS=         STRCOLOR=BROWNC
```


NURE MASTER FILE EDIT

```
STRWEATH=         STRRAIN =YES
          ********************************************************************************


SITE    =SCTA028  LATITUDE= 34.9030 LONGITUD= 83.0581 SAMPDATE= 9/05/75 SAMPTIME=1400     TEAMS   =P01      DUMMY   =0
PH      = 6.47000 EH      = 290.000 TEMP    = 25.3800 COND    = 28.0000 O2      = 4.55000 SO4     = 9.03446 PO4     = .761321
NO3     = .079206 NH3     = .333181 ALK     = .200000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 7.00000 STRDEPTH= 2.00000 VELOCITY= 1.50000 STRSHAPE=TRAP     STRBOTOM=
STRBOTOM=SANDGRAV STRRED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=GENTLE   STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =RESID    STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=BROWNC
STRWEATH=         STRRAIN =NO
          ********************************************************************************


SITE    =SCTA029  LATITUDE= 34.8949 LONGITUD= 83.0563 SAMPDATE= 9/14/75 SAMPTIME=930      TEAMS   =P01      DUMMY   =0
PH      = 6.34000 EH      = 261.000 TEMP    = 15.2500 COND    = 16.0000 O2      = 6.30000 SO4     =0.000000 PO4     = .031264
NO3     = .019352 NH3     = .029631 ALK     = .140000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 3.00000 STRDEPTH= 1.00000 VELOCITY= 2.50000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=GRAVEL   STRRED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=LOW      STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=COMPOSIT STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=         STRRAIN =NO
          ********************************************************************************


SITE    =SCTA030  LATITUDE= 34.8949 LONGITUD= 83.0547 SAMPDATE= 9/14/75 SAMPTIME=1030     TEAMS   =P01      DUMMY   =0
PH      = 6.38000 EH      = 214.000 TEMP    = 20.2900 COND    = 18.0000 O2      = 6.01000 SO4     = 7.55108 PO4     = .079826
NO3     = .038195 NH3     = .193057 ALK     = .140000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 20.0000 STRDEPTH= 4.00000 VELOCITY= 1.50000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET   STRRED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=LOW      STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=         STRCOLOR=BROWNC
STRWEATH=         STRRAIN =NO
          ********************************************************************************


SITE    =SCTA031  LATITUDE= 34.9863 LONGITUD= 83.0063 SAMPDATE= 9/04/75 SAMPTIME=930      TEAMS   =P01      DUMMY   =0
PH      = 6.82000 EH      = 370.000 TEMP    = 17.1800 COND    = 12.0000 O2      = 5.90000 SO4     = 8.31741 PO4     = .761321
NO3     =0.000000 NH3     =0.000000 ALK     = .120000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 5.00000 STRDEPTH= 2.00000 VELOCITY= 2.00000 STRSHAPE=TRAP     STRBOTOM=
STRBOTOM=SANDGRAV STRRED  =BROWED   STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=         STRSAMPS=LEFT     STRCOLOR=
STRWEATH=         STRRAIN =NO
```

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**********************************************************************

SITE    =SCTA032  LATITUDE= 34.9684 LONGITUD= 83.0186 SAMPDATE= 9/06/75 SAMPTIME=1100      TEAMS   =P01      DUMMY   =0
PH      = 6.50000 EH      = 400.000 TEMP    = 17.4700 COND    = 14.0000 O2      = 6.28000 SO4     = 7.14416 PO4     = .105076
NO3     = .050931 NH3     = .081116 ALK     = .140000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 4.00000 STRDEPTH= 1.50000 VELOCITY= 2.00000 STRSHAPE=TRAP     STRBOTOM=
STRBOTOM=SAND     STRBED  =EPODED   STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=CLOUDY   STRRAIN =NO
**********************************************************************

SITE    =SCTA033  LATITUDE= 34.9441 LONGITUD= 83.0299 SAMPDATE= 9/03/75 SAMPTIME=1530      TEAMS   =P01      DUMMY   =0
PH      = 6.74000 EH      = 262.000 TEMP    = 19.8400 COND    = 23.0000 O2      = 6.13000 SO4     =0.000000 PO4     = 1.09536
NO3     = .006243 NH3     = .060194 ALK     = .200000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 5.00000 STRDEPTH= .400000 VELOCITY= 1.00000 STRSHAPE=TRAP     STRBOTOM=
STRBOTOM=SANDGRAV STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =SPARSE   STRRELIF=GENTLE   STRPREC =GREEN    STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=         STRRAIN =NO
**********************************************************************

SITE    =SCTA034  LATITUDE= 34.9242 LONGITUD= 83.0162 SAMPDATE= 9/03/75 SAMPTIME=1530      TEAMS   =P01      DUMMY   =0
PH      = 6.77000 EH      = 305.000 TEMP    = 20.2200 COND    = 23.0000 O2      = 6.73000 SO4     = 4.70018 PO4     = .335727
NO3     = .070206 NH3     = .404222 ALK     = .180000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 7.00000 STRDEPTH= .400000 VELOCITY= 1.00000 STRSHAPE=TRAP     STRBOTOM=
STRBOTOM=SANDGRAV STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=         STRRAIN =NO
**********************************************************************

SITE    =SCTA035  LATITUDE= 34.9219 LONGITUD= 83.0011 SAMPDATE= 9/05/75 SAMPTIME=1600      TEAMS   =P01      DUMMY   =0
PH      = 6.81000 EH      = 366.000 TEMP    = 20.9400 COND    = 23.0000 O2      = 4.64000 SO4     =0.000000 PO4     = .079826
NO3     = .050931 NH3     = .113369 ALK     = .180000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 5.00000 STRDEPTH= 2.00000 VELOCITY= .500000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =SPARSE   STRRELIF=FLAT     STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =FARM     STRACT  =RESID    STRSAMPW=         STRSAMPS=         STRCOLOR=BROWNC
STRWEATH=         STRRAIN =NO
**********************************************************************
```


NURE MASTER FILE EDIT

```
SITE    =SCTA036  LATITUDE= 34.9212 LONGITUD= 83.0470 SAMPDATE= 9/12/75 SAMPTIME=1300      TEAMS   =P01      DUMMY   =0
PH      = 6.29000 EH      = 277.000 TEMP    = 19.7500 COND    = 18.0000 O2      = 5.11000 SO4     = 10.6788 PO4     = .257438
NO3     = .043195 NH3     = .158162 ALK     = .120000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 5.00000 STRDEPTH= 1.00000 VELOCITY= 2.00000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=GRAVEL   STRBED  =EPODED   STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=LOW      STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=         STRRAIN =YES
**********************************************************************

SITE    =SCTA037  LATITUDE= 34.9733 LONGITUD= 83.0327 SAMPDATE= 9/16/75 SAMPTIME=1530      TEAMS   =P01      DUMMY   =0
PH      = 6.35000 EH      = 273.000 TEMP    = 15.2100 COND    = 9.00000 O2      =0.000000 SO4     = 5.26868 PO4     = .736072
NO3     = .038195 NH3     = .081116 ALK     = .100000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 4.00000 STRDEPTH= .500000 VELOCITY= 2.00000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=CLOUDY   STRRAIN =YES
**********************************************************************

SITE    =SCTA040  LATITUDE= 34.9637 LONGITUD= 83.0583 SAMPDATE= 9/09/75 SAMPTIME=1600      TEAMS   =P01      DUMMY   =0
PH      = 5.75000 EH      = 365.000 TEMP    = 15.4400 COND    = 14.0000 O2      = 5.20000 SO4     =0.000000 PO4     = .227850
NO3     = .017092 NH3     =0.000000 ALK     = .100000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 6.00000 STRDEPTH= 1.50000 VELOCITY= 2.00000 STRSHAPE=TRAP     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =EPODED   STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=         STRRAIN =YES
**********************************************************************

SITE    =SCTA041  LATITUDE= 34.9624 LONGITUD= 83.0587 SAMPDATE= 9/09/75 SAMPTIME=1640      TEAMS   =P01      DUMMY   =0
PH      = 6.28000 EH      = 238.300 TEMP    = 18.0400 COND    = 2.00000 O2      = 6.02000 SO4     =0.000000 PO4     = .117957
NO3     = .073113 NH3     = .049900 ALK     = .140000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 2.00000 STRDEPTH= .300000 VELOCITY= 1.50000 STRSHAPE=TRIANG   STRBOTOM=
STRBOTOM=NOTDET   STRBED  =EPODED   STRLEVEL=NORM     STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=COMPOSIT STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=         STRRAIN =YES
**********************************************************************

SITE    =SCTA042  LATITUDE= 34.9733 LONGITUD= 83.0496 SAMPDATE= 9/09/75 SAMPTIME=1040      TEAMS   =P01      DUMMY   =0
```

NURE MASTER FILE EDIT

```
PH      = 5.94000 EH      = 439.000 TEMP    = 16.4100 COND    = 11.0000 O2      = 10.0000 SO4     = 5.78668 PO4     = 1.09536
NO3     = .017092 NH3     = .169614 ALK     = .140000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 4.00000 STRDEPTH= .500000 VELOCITY= 2.50000 STRSHAPE=TRIANG   STRBOTOM=
STRBOTOM=NOTDET   STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =RED       STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=         STRRAIN =YES
          ********************************************************************************

SITE    =SCTA043  LATITUDE= 34.9731 LONGITUD= 83.0505 SAMPDATE= 9/09/75 SAMPTIME=1145     TEAMS   =P01       DUMMY   =0
PH      = 6.12000 EH      = 400.000 TEMP    = 15.9500 COND    = 11.0000 O2      = 5.20000 SO4     =0.000000 PO4     = .144257
NO3     = .038195 NH3     = .091749 ALK     = .120000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 4.00000 STRDEPTH= .500000 VELOCITY= 2.00000 STRSHAPE=TRAP     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =RED       STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=         STRRAIN =YES
          ********************************************************************************

SITE    =SCTA044  LATITUDE= 34.9909 LONGITUD= 83.0292 SAMPDATE= 9/08/75 SAMPTIME=1515     TEAMS   =P01       DUMMY   =0
PH      = 6.01000 EH      = 332.000 TEMP    = 17.9000 COND    = 11.0000 O2      =0.000000 SO4     = 9.37821 PO4     = .171309
NO3     = .191324 NH3     = .266977 ALK     = .180000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 4.00000 STRDEPTH= .500000 VELOCITY= 2.00000 STRSHAPE=TRAP     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =DEPOSIT  STRLEVEL=LOW      STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =         STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=CLOUDY   STRRAIN =YES
          ********************************************************************************

SITE    =SCTA045  LATITUDE= 34.9688 LONGITUD= 83.1182 SAMPDATE= 9/08/75 SAMPTIME=1200     TEAMS   =P01       DUMMY   =0
PH      = 6.03000 EH      = 377.000 TEMP    = 16.2500 COND    = 8.00000 O2      =0.000000 SO4     =0.000000 PO4     =-.151162
NO3     = .094711 NH3     =0.000000 ALK     = .080000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 7.00000 STRDEPTH= 1.00000 VELOCITY= 1.50000 STRSHAPE=TRAP     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =RED       STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=CLOUDY   STRRAIN =YES
          ********************************************************************************

SITE    =SCTA046  LATITUDE= 34.9809 LONGITUD= 83.0864 SAMPDATE= 9/08/75 SAMPTIME=1400     TEAMS   =P01       DUMMY   =0
PH      = 5.87000 EH      = 345.000 TEMP    = 16.8800 COND    = 12.0000 O2      =0.000000 SO4     =0.000000 PO4     = 1.21143
```


NURE MASTER FILE EDIT

```
NO3     = .056256 NH3     = .292922 ALK     = .100000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 20.0000 STRDEPTH= 3.00000 VELOCITY= 2.00000 STRSHAPE=TRAP     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =RED       STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=CLOUDY   STRRAIN =YES
          ********************************************************************************

SITE    =SCTA047  LATITUDE= 34.9377 LONGITUD= 83.0943 SAMPDATE= 9/08/75 SAMPTIME=1045     TEAMS   =P01       DUMMY   =0
PH      = 5.61000 EH      = 375.000 TEMP    = 15.7200 COND    = 9.00000 O2      = 6.80000 SO4     =0.000000 PO4     = .105076
NO3     = .038195 NH3     = .060194 ALK     = .100000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 4.00000 STRDEPTH= 1.00000 VELOCITY= 2.00000 STRSHAPE=TRAP     STRBOTOM=
STRBOTOM=SANDGRAV STRBED  =DEPOSIT  STRLEVEL=LOW      STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =RED       STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=         STRRAIN =YES
          ********************************************************************************

SITE    =SCTA101  LATITUDE= 34.9453 LONGITUD= 83.0895 SAMPDATE= 9/09/75 SAMPTIME=900      TEAMS   =P01       DUMMY   =0
PH      = 5.22000 EH      = 461.000 TEMP    = 15.7600 COND    = 14.0000 O2      = 12.2000 SO4     = 4.70018 PO4     = .368950
NO3     = .010514 NH3     = .217079 ALK     = .060000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELCR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =
WELCASE =         WELCLAS =         WELPOINT=         WELPIPE =         WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=         WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =NONE     WELFREQ =
          ********************************************************************************

SITE    =SCTA102  LATITUDE= 34.9202 LONGITUD= 83.0473 SAMPDATE= 9/12/75 SAMPTIME=1415     TEAMS   =P01       DUMMY   =0
PH      = 6.24000 EH      = 291.000 TEMP    = 21.3800 COND    = 18.0000 O2      = 5.70000 SO4     = 7.14416 PO4     = .079826
NO3     = .079056 NH3     = .113368 ALK     = .120000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =
WELCASE =         WELCLAS =         WELPOINT=         WELPIPE =         WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =OTHER    WELAPPER=HAZY     WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =
          ********************************************************************************

SITE    =SCTA103  LATITUDE= 34.9279 LONGITUD= 83.0691 SAMPDATE= 9/14/75 SAMPTIME=1230     TEAMS   =P01       DUMMY   =0
PH      = 5.52000 EH      = 344.000 TEMP    = 19.4900 COND    = 14.0000 O2      = 1.17000 SO4     =0.000000 PO4     = .105076
NO3     = .035314 NH3     =0.000000 ALK     = .100000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
```

NUKE MASTER FILE EDIT

```
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=30       WELSCREN=0        WELAGE  =8        WELAGEP =8        WELTYPE =DUG
WELCASE =NO       WELCLAS =PRIVATE  WELPOINT=OTHER    WELPIPE =GALV     WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =RESID    WELFREQ =CONSTANT
          **********************************************************************

SITE    =SCTA104  LATITUDE= 34.5109 LONGITUD= 83.0600 SAMPDATE= 9/14/75 SAMPTIME=1330     TEAMS   =P01      DUMMY   =0
PH      = 5.44000 CH      = 375.000 TEMP    = 16.3700 COND    = 17.0000 O2      = 2.72000 SO4     = 6.71748 PO4     = .144257
NO3     = .061722 NH3     =0.000000 ALK     = .120000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=30       WELSCREN=0        WELAGE  =14       WELAGEP =14       WELTYPE =DRILLED
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=BEFORSTO WELPIPE =GALV     WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =RESID    WELFREQ =DAILY
          **********************************************************************

SITE    =SCTA105  LATITUDE= 34.9182 LONGITUD= 83.0383 SAMPDATE= 9/14/75 SAMPTIME=1500     TEAMS   =P01      DUMMY   =0
PH      = 5.65000 CH      = 342.000 TEMP    = 16.6400 COND    = 21.0000 O2      = 3.30000 SO4     = 8.68129 PO4     = .575996
NO3     = .246799 NH3     =0.030000 ALK     = .120000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=205      WELSCREN=0        WELAGE  =5        WELAGEP =5        WELTYPE =DRILLED
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=         WELPIPE =GALV     WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =FARM     WELACT  =RESID    WELFREQ =CONSTANT
          **********************************************************************
```

TABLE 8. Tabulated Field Data, Oconee, South Carolina Study Area.

FIELD MEASUREMENT DATA

SITE CODE	LAT	LONG	ALKA	COND	SO4	NO3	PO4	NH3	PH	EH	O2	FILT	RESIN	TEMP	TEAM
SCSA001	34.9813	82.9974	0.10	12.	5.38	0.02	0.90	0.17	6.90	363.	7.07	2000.	1000.	16.86	P01
SCSA002	34.9803	82.9980	0.14	8.	7.55	0.01	0.93	0.04	5.22	351.	7.07	2000.	1000.	15.96	P01
SCSA101	0.0	0.0	0.14	37.	0.0	0.20	1.91	0.0	5.85	904.	2.93	2000.	1000.	24.63	P01
SCTA001	34.9711	83.0316	0.10	12.	0.0	0.05	0.01	0.22	6.70	361.	6.07	2000.	1000.	17.63	P01
SCTA002	34.9774	83.0258	0.12	14.	11.60	0.12	0.19	0.32	6.02	339.	0.0	2000.	1000.	17.66	P01
SCTA003	34.9712	83.0269	0.10	14.	12.48	0.06	0.17	0.0	6.74	392.	5.21	2000.	1000.	17.12	P01
SCTA005	34.9613	83.0212	0.16	17.	8.68	0.03	0.46	0.02	6.65	357.	6.14	2000.	1000.	17.04	P01
SCTA006	34.9663	83.0137	0.14	14.	8.68	0.05	-0.09	0.03	6.90	402.	6.01	2000.	1000.	17.52	P01
SCTA007	34.9692	83.0099	0.14	14.	0.0	0.05	0.42	0.03	6.76	440.	6.70	2000.	1000.	17.80	P01
SCTA008	34.9723	83.0083	0.16	17.	0.0	0.00	-0.03	0.06	6.92	418.	4.20	2000.	1000.	18.73	P01
SCTA009	34.9674	83.0368	0.08	1.	4.70	0.02	1.30	0.12	6.47	336.	5.82	2000.	1000.	17.15	P01
SCTA010	34.9563	83.0458	0.12	13.	0.0	0.0	0.11	0.05	6.80	330.	4.60	2000.	1000.	18.11	P01
SCTA011	34.9561	83.0468	0.14	13.	7.14	0.04	0.12	0.12	6.52	320.	6.30	2000.	1000.	17.90	P01
SCTA012	34.9553	83.0508	0.14	17.	11.60	0.03	0.11	0.07	6.28	269.	4.20	2000.	1000.	18.01	P01
SCTA013	34.9548	83.0517	0.16	16.	4.70	0.09	0.74	0.07	6.26	237.	5.45	2000.	1000.	18.28	P01
SCTA014	34.9497	83.0476	0.14	14.	10.36	0.04	0.37	0.12	6.80	343.	5.39	2000.	1000.	18.70	P01
SCTA015	34.9497	83.0469	0.16	18.	9.03	0.04	0.23	0.11	6.57	364.	0.0	2000.	1000.	18.07	P01
SCTA016	34.9468	83.0480	0.12	15.	3.31	0.05	0.48	0.06	6.88	323.	6.77	2000.	1000.	19.40	P01
SCTA017	34.9058	83.0511	0.14	19.	8.32	0.09	0.21	0.08	6.84	346.	4.50	2000.	1000.	22.52	P01
SCTA018	34.9359	83.0710	0.12	14.	6.27	0.04	0.35	0.07	6.83	390.	7.11	2000.	1000.	18.87	P01
SCTA019	34.9366	83.0493	0.20	22.	0.0	0.0	0.24	0.27	5.98	233.	2.14	2000.	1000.	19.62	P01
SCTA020	34.9292	83.0678	0.10	18.	13.33	0.04	1.50	0.0	6.68	411.	2.65	2000.	1000.	25.67	P01
SCTA021	34.9784	83.0066	0.12	15.	13.61	0.04	0.01	0.10	6.71	354.	4.40	2000.	1000.	17.53	P01
SCTA022	34.9192	83.0477	0.14	18.	21.89	0.27	0.40	0.17	5.97	261.	5.40	2000.	1000.	20.80	P01
SCTA023	34.8834	83.0508	0.16	19.	14.17	0.10	0.08	0.19	6.63	420.	4.80	2000.	1000.	22.10	P01
SCTA024	34.9816	83.0477	0.32	43.	5.79	0.07	-0.00	0.20	7.10	394.	4.20	2000.	1000.	21.82	P01
SCTA025	34.9294	83.0632	0.12	17.	14.17	0.09	0.24	0.0	6.68	415.	5.57	2000.	1000.	18.43	P01
SCTA026	34.9201	83.0448	0.14	19.	11.60	0.10	0.35	0.0	6.77	391.	5.40	2000.	1000.	23.22	P01
SCTA027	34.9152	83.0765	0.12	14.	3.31	0.05	0.14	0.0	6.35	285.	6.05	2000.	1000.	20.18	P01
SCTA028	34.9030	83.0581	0.20	28.	9.03	0.07	0.76	0.33	6.47	200.	4.55	2000.	1000.	25.38	P01
SCTA029	34.8949	83.0563	0.14	16.	0.0	0.02	0.03	0.03	6.34	261.	6.30	2000.	1000.	15.25	P01
SCTA030	34.8949	83.0547	0.14	18.	7.55	0.04	0.08	0.19	6.38	214.	6.01	2000.	1000.	20.29	P01
SCTA031	34.9863	83.0063	0.12	12.	8.32	0.0	0.76	0.0	6.82	370.	5.90	2000.	1000.	17.18	P01
SCTA032	34.9684	83.0186	0.14	14.	7.14	0.05	0.11	0.08	6.50	400.	6.28	2000.	1000.	17.47	P01
SCTA033	34.9441	83.0259	0.20	23.	0.0	0.01	1.10	0.06	6.74	262.	6.13	2000.	1000.	19.84	P01
SCTA034	34.9242	83.0162	0.18	23.	4.70	0.07	0.34	0.40	6.77	305.	6.73	2000.	1000.	20.22	P01
SCTA035	34.9219	83.0011	0.18	23.	0.0	0.05	0.08	0.11	6.81	366.	4.64	2000.	1000.	20.94	P01
SCTA036	34.9212	83.0470	0.12	18.	10.68	0.04	0.26	0.16	6.29	277.	5.11	2000.	1000.	19.75	P01
SCTA037	34.9733	83.0327	0.10	9.	5.27	0.04	0.74	0.08	6.35	273.	0.0	2000.	1000.	15.21	P01
SCTA040	34.9652	83.0583	0.10	14.	0.0	0.02	0.23	0.0	5.75	365.	5.20	2000.	1000.	18.44	P01
SCTA041	34.9624	83.0587	0.14	2.	0.0	0.07	0.12	0.05	6.28	238.	6.02	2000.	1000.	18.04	P01
SCTA042	34.9733	83.0496	0.14	11.	5.79	0.02	1.10	0.17	5.94	439.	10.00	2000.	1000.	16.41	P01
SCTA043	34.9731	83.0505	0.12	11.	0.0	0.04	0.14	0.09	6.12	400.	5.20	2000.	1000.	15.95	P01
SCTA044	34.9909	83.0292	0.18	11.	9.38	0.10	0.17	0.27	6.01	332.	0.0	2000.	1000.	17.90	P01
SCTA045	34.9688	83.1182	0.08	8.	0.0	0.09	-0.15	0.0	6.03	377.	0.0	2000.	1000.	16.25	P01
SCTA046	34.9869	83.0864	0.10	12.	0.0	0.06	1.21	0.29	5.87	345.	0.0	2000.	1000.	16.88	P01
SCTA047	34.9377	83.0943	0.10	9.	0.0	0.04	0.11	0.06	5.61	375.	6.80	2000.	1000.	15.72	P01
SCTA101	34.9453	83.0895	0.06	14.	4.70	0.01	0.37	0.22	5.22	461.	12.20	2000.	1000.	15.76	P01
SCTA102	34.9202	83.0473	0.12	18.	7.14	0.08	0.08	0.11	6.24	291.	5.70	2000.	1000.	21.38	P01

FIELD MEASUREMENT DATA

SITE CODE	LAT	LONG	ALKA	COND	SO4	NO3	PO4	NH3	PH	EH	O2	FILT	RESIN	TEMP	TEAM
SCTA103	34.9279	83.0691	0.10	14.	0.0	0.03	0.11	0.0	5.52	344.	1.17	2000.	1000.	19.49	P01
SCTA104	34.9109	83.0660	0.12	17.	6.72	0.06	0.14	0.0	5.44	375.	2.72	2000.	1000.	16.37	P01
SCTA105	34.9142	83.0383	0.12	21.	8.68	0.25	0.58	0.0	5.65	342.	3.30	2000.	1000.	16.64	P01

TABLE 9

Emission Spectrographic Analyses of -100+200 Mesh Stream Sediment from the Oconee County, South Carolina Study Area[a-f]

Element →	*Pb*	*Sn*	*Cr*	*Ni*	*Nb*	*V*	*Cu*	*Ag*	*Zr*	*La*	*Ba*
Line Read →	*2833*	*2840 3262*	*3021*	*3050*	*3163*	*3185*	*3274*	*3282*	*3392*	*4333*	*4554*
Site Code											
SCTA											
001	30	5	<5	<2	30	30	2	1	G10,000	150	400
002	2	<5	<5	<2	10	30	<1	∿1/2	4,000	120	300
003	30	<5	<5	<2	20	10	1	ML 1	400	50	500
003-1*	20	40	<5	5	10	10	<1	1	G10,000	70	300
005	10	<5	<5	2	10	20	7	ML 1	1,000	<20	200
006	15	<5	<5	<2	20	20	2	ML 1	175	20	500
007	10	20	<5	5	10	40	1	1-2	G10,000	150	150
008	10	5	<5	2	20	30	2	1-2	G10,000	150	175
009	30	5	<5	<2	20	30	1	∿1/2	8,000	120	400
010	20	8	<5	<2	20	40	1	∿1/2	8,000	120	300
011	5	<5	<5	<2	15	20	5	∿1/2	4,000	80	200
012	15	10	<5	2	10	20	2	1	G10,000	80	300
013	20	<5	<5	<2	10	10	<1	ML 1	150	70	700
014	20	<5	<5	2	<10	30	2	<1	3,000	75	700
015	10	<5	5	2	<10	20	5	<1	700	20	200
016	20	<5	<5	<2	10	30	2	∿1/2	5,000	100	500
017	15	<5	<5	2	10	30	5	1	10,000	75	400
018	15	<5	<5	2	10	50	5	<1	2,000	70	300
019	15	<5	<5	2	10	30	1	1	6,000	90	400
020	10	<5	10	5	10	30	20	ML 1	300	20	150
021	7	<5	10	2	10	50	15	<1	1,500	20	200
022	15	5	10	5	10	30	2	2	G10,000	150	200
023	10	<5	5	5	10	30	2	2	G10,000	130	200
024	<5	<5	10	<2	<10	30	2	<1	2,000	20	75
025	10	<5	5	<2	<10	15	1	ML 1	500	20	300
026	10	5	5	<2	10	50	2	∿1/2	5,000	90	200
027	5	10	50	2	20	50	2	1	G10,000	500	40
028	5	<5	5	2	10	20	2	1	G10,000	100	150
029	5	<5	<5	<2	20	20	2	∿1/2	4,000	50	100
030	10	5	<5	5	20	30	2	1	G10,000	120	300
031	20	<5	<5	2	10	15	<1	<1	2,000	90	800
032	30	<5	<5	<2	10	20	3	<1	2,000	50	600
033	5	<5	<5	<2	<10	20	5	ML 1	1,000	50	150
034	5	<5	<5	<2	<10	30	8	∿1/2	3,000	50	150
035	5	<5	<5	<2	<10	<10	2	ML 1	1,000	<20	120
036	5	<5	5	2	10	20	5	∿1/2	5,000	20	120
037	15	5	<5	10	<10	20	<1	2	G10,000	175	300
040	10	5	<5	2	10	50	2	1	3,000	80	300
041	30	5	<5	<2	10	30	<1	∿1/2	3,000	100	500
042	10	<10	5	<2	10	20	<1	∿1/2	3,000	75	500
043	5	<10	10	2	20	50	5	1	G10,000	150	300
044	15	<10	5	<2	10	20	2	∿1/2	1,500	50	500
045	10	<10	10	5	10	30	10	<1	500	20	300
046	10	<10	10	5	20	30	10	∿1/2	1,200	50	250
047	5	<10	10	5	20	50	10	1	10,000	100	100
SCSA											
001	15	<10	10	5	15	30	2	∿1/2	5,000	100	300
002	5	<10	10	2	10	50	5	1	10,000	100	150
AGV-1	35	<10	5	20	10	100	50	<1	400	50	1500

---

a. Be - ∿2 ppm in SCTA 003, 014, 041, 042, 044, 045, and 046.
<2 ppm in all others.

b. Bi - <5 ppm in all samples.

c. Co - <10 ppm in all samples.

d. Mo - 5 ppm in SCTA 027.
<5 ppm in all others.

e. W - <200 ppm in all samples.

f. MI. - Much less than.

* See footnote to Table 6.

TABLE 10

Uranium Content of Stream Bottom Sediment, Suspended Solids and Water from Brush Creek Study Area, Mitchell and Yancey Counties, N. C.

Site Code	40-100 Mesh ppm U A	B(1)	-100 Mesh ppm U A	B(1)	Suspended Solids ppm U	Water ppt U
NCMI						
001	2.0		3.0		2.1	
002	3.1		5.3		2.3	
003	0.8		2.4		3.0	
004	1.3		1.7			
005	1.6	1.6	2.2	2.0	1.8	
006	1.1		3.4		3.4	
007	1.4		2.5		2.4	
008	2.7		11			53
009	0.9		2.2		3.1	30
010	3.9	1.2	5.6	5.6	3.2	81
011	1.8		7.4		1.1	
012	3.8		11			64
013	1.9	1.6	4.0	6.0	2.6	49
014	35		8.8		2.2	57
015	0.6	0.6	1.3	1.2		
016	1.3		3.1		1.0	
017						
018	1.2		7.7			
019	2.2		2.9		2.8	30
020	0.9		2.3		2.3	
021	1.0		6.4		1.7	41
022	0.7		2.0			
023	3.5		3.6		3.1	60
024	2.5	1.7	3.7	4.2	2.2	
025	1.0		1.2		1.5	

TABLE 10, continued

026	2.3	2.6	2.4	1.8	2.3	
027	6.2		4.9			
028	1.3		2.8		3.8	65
029	3.8		5.9		1.8	44
030	5.1		3.8		1.7	39
031	3.9		5.1			
032	1.0	3.0	3.6	4.9	4.4	87
033	0.8		1.9		3.2	35
034	3.1		9.2		3.3	49
035	0.8		8.1			
036	1.4		15		3.6	62
037	1.5		5.0		6.5	180
038	1.2		7.0		4.2	82
039	0.6	1.8	2.2	6.1		
040	2.9		8.2		21	66
041	4.6		6.7		4.4	32
NCBA						
001	1.2		2.0		1.1	23
002	0.8		1.2		2.0	58
003	3.4		2.3		1.5	37
004	3.3		5.6			37
005	7.5		7.8		2.6	23
006	7.3	7.1	6.6	19	2.3	39
007	0.5		0.7		1.2	25
008	1.6		2.4			1
009	1.8		1.9		3.1	70
010	0.9		4.9		1.9	26
011	1.3		3.2		1.7	52

TABLE 10, continued

NCBU					
001	1.8		17		12
002	1.2		2.6	3.8	130
003	1.3		11	2.4	61
004	2.2		19	38	23
005	1.5		5.6		29
NCHU					
001	1.2	1.5	2.8	4.2	

(1) B is a duplicate sample.

TABLE 11

Emission Spectrographic Analyses of -100 Mesh Stream Sediment from the Brush Creek, NC Study Area

Site	*Pb*	*Cr*	*Ni*	*Nb*	*V*	*Cu*	*Zr*	*Co*	*La*	*Ba*
NCMI										
001	10	100	5	<10	100	30	2000	20	75	150
002										
003	7	75	30	10	150	30	500	15	50	300
004	10	50	20	<10	75	30	300	10	20	300
005	20	50	30	<10	75	30	600	10	75	300
006	10	100	40	20	150	50	500	15	75	200
007	15	100	40	10	150	50	400	15	20	200
008	20	100	20	20	100	50	500	15	50	150
009	15	75	75	<10	200	30	600	30	<20	150
010	15	100	50	10	100	30	700	20	50	200
011	10	150	50	20	100	30	1000	20	50	200
012	20	75	30	50	100	30	1000	15	200	300
013	15	75	30	10	80	30	1000	30	<20	400
014	10	100	30	20	80	30	2000	15	<20	400
015	5	60	20	20	100	20	4000	10	75	175
016	5	75	20	30	80	30	2000	15	20	400
018	10	100	40	20	200	50	1500	20	100	150
019	7	100	30	50	200	100	5000	15	400	50
020	5	100	30	20	200	20	2000	15	50	150
021	10	40	10	20	150	20	5000	20	175	150
022	10	50	15	20	150	20	3000	20	175	500
023	10	75	20	20	100	20	2500	15	75	500
024	10	50	20	10	150	20	2000	50	75	300
025	10	90	30	20	150	20	1000	20	150	175
026	10	75	20	<10	75	30	1500	20	60	400
027	5	90	30	10	200	20	2000	20	100	100
028	10	100	30	<10	75	30	1200	15	50	400
029	5	75	50	<10	100	20	2000	15	75	300
030	5	75	30	20	200	20	2000	20	150	150
031	5	100	20	50	200	30	3000	15	75	125
032	5	150	50	<10	200	20	1500	20	<20	150
033	10	100	30	<10	100	30	1000	20	50	150
034	10	300	50	20	150	30	5000	15	150	250
035	5	200	10	20	100	10	2000	15	100	200
036	5	100	10	50	75	15	5000	10	100	200
037	5	100	20	20	100	15	800	15	20	175
038	5	100	20	30	75	20	800	10	100	150
039	5	100	20	10	100	20	1000	15	50	150
040	5	100	20	10	100	15	1000	15	100	150
041	5	100	15	40	75	10	2000	12	100	150
NCBA										
001	5	50	10	10	75	10	800	20	50	175
002	5	50	10	10	100	10	800	18	50	200
003	5	50	10	20	150	5	1500	18	75	200
004	10	50	10	<10	100	20	3000	40	100	150
005	10	75	10	<10	100	20	2000	20	100	150
006	10	75	20	<10	100	20	2000	30	100	150
007	10	50	15	<10	100	20	1000	50	20	150
008	<10	50	10	<10	200	30	2000	75	20	40
009	10	100	30	<10	75	30	2000	15	50	150
010	5	50	5	20	100	10	3000	20	100	150
011	5	50	20	30	75	8	1500	15	75	400
NCBU										
001	5	75	10	30	100	10	2000	15	200	80
002	5	50	15	20	100	10	1500	15	75	150
003	5	300	20	20	100	15	2000	18	150	120
004	5	100	20	30	75	20	1000	12	300	120
005	5	100	20	10	75	20	1000	12	75	150
NCHV										
001	10	20	20	<10	75	20	2000	15	50	400

Be:2 ppm in NCMI 3, 13, 14, 19

Ag:~1/2 ppm in NCMI 036

TABLE 12. Field Data from the Brush Creek, North Carolina Study Area

NURE MASTER FILE EDIT

```
SITE    =NCBA001  LATITUDE= 36.0007 LONGITUD= 82.2189 SAMPDATE= 9/16/75 SAMPTIME=1000     TEAMS   =803      DUMMY   =0
PH      = 7.62000 EH      = 204.000 TEMP    = 13.4000 COND    = 81.0000 O2      = 9.20000 SO4     = 14.9955 PO4     = .079826
NO3     = .050931 NH3     = .070598 ALK     = .500000 FILT    = 1850.00 RESIN   = 500.000 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 3.00000 STRDEPTH= 2.00000 VELOCITY= .800000 STRSHAPE=RECT     STRBOTOM=NOTDET
STRBOTOM=NOTDET   STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =FARM     STRACT  =RESID    STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=CLOUDY   STRRAIN =NO
          **********************************************************************

SITE    =NCBA002  LATITUDE= 36.0007 LONGITUD= 82.2224 SAMPDATE= 9/16/75 SAMPTIME=1100     TEAMS   =803      DUMMY   =0
PH      = 7.78000 EH      = 226.000 TEMP    = 14.2500 COND    = 81.0000 O2      = 9.20000 SO4     =0.000000 PO4     = .007886
NO3     = .050931 NH3     = .113368 ALK     = .480000 FILT    = 1900.00 RESIN   = 500.000 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 2.00000 STRDEPTH= .200000 VELOCITY= .800000 STRSHAPE=RECT     STRBOTOM=NOTDET
STRBOTOM=NOTDET   STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=CLOUDY   STRRAIN =NO
          **********************************************************************

SITE    =NCBA003  LATITUDE= 36.0004 LONGITUD= 82.2258 SAMPDATE= 9/16/75 SAMPTIME=1200     TEAMS   =803      DUMMY   =0
PH      = 7.80000 EH      = 232.000 TEMP    = 14.4000 COND    = 67.0000 O2      = 9.51000 SO4     = 12.1868 PO4     = .242527
NO3     = .118855 NH3     = .060194 ALK     = .420000 FILT    = 1600.00 RESIN   = 500.000 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 5.00000 STRDEPTH= .500000 VELOCITY= 1.00000 STRSHAPE=RECT     STRBOTOM=NOTDET
STRBOTOM=NOTDET   STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =SPARSE   STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =FARM     STRACT  =RESID    STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=CLOUDY   STRRAIN =NO
          **********************************************************************

SITE    =NCBA004  LATITUDE= 36.0029 LONGITUD= 82.2319 SAMPDATE= 9/16/75 SAMPTIME=1530     TEAMS   =803      DUMMY   =0
PH      = 7.60000 EH      = 249.000 TEMP    = 15.5000 COND    = 70.0000 O2      = 9.04000 SO4     = 14.9955 PO4     = .386010
NO3     = .163684 NH3     = .124358 ALK     = .420000 FILT    = 1850.00 RESIN   = 500.000 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 5.00000 STRDEPTH= .400000 VELOCITY= 1.20000 STRSHAPE=RECT     STRBOTOM=NOTDET
STRBOTOM=NOTDET   STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =FARM     STRACT  =RESID    STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=CLOUDY   STRRAIN =NO
          **********************************************************************

SITE    =NCBA005  LATITUDE= 36.0021 LONGITUD= 82.2322 SAMPDATE= 9/16/75 SAMPTIME=1500     TEAMS   =803      DUMMY   =0
```


NURE MASTER FILE EDIT

```
PH      = 7.91000 EH      = 230.000 TEMP    = 16.7000 COND    = 47.0000 O2      = 9.15000 SO4     = 14.1707 PO4     = .031264
NO3     = .056256 NH3     = .009777 ALK     = .320000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 5.00000 STRDEPTH= .400000 VELOCITY= 1.30000 STRSHAPE=RECT     STRBOTOM=NOTDET
STRBOTOM=NOTDET   STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =RESID    STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=CLOUDY   STRRAIN =NO
          **********************************************************************

SITE    =NCBA006  LATITUDE= 36.0045 LONGITUD= 82.2355 SAMPDATE= 9/16/75 SAMPTIME=1700     TEAMS   =803      DUMMY   =0
PH      = 7.87000 EH      = 220.000 TEMP    = 15.9000 COND    = 56.0000 O2      = 8.90000 SO4     = 14.7216 PO4     = .055233
NO3     = .091483 NH3     = .102458 ALK     = .360000 FILT    = 1950.00 RESIN   = 500.000 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 3.00000 STRDEPTH= .500000 VELOCITY= 3.50000 STRSHAPE=RECT     STRBOTOM=NOTDET
STRBOTOM=NOTDET   STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =FARM     STRACT  =RESID    STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=CLOUDY   STRRAIN =NO
          **********************************************************************

SITE    =NCBA007  LATITUDE= 36.0081 LONGITUD= 82.2458 SAMPDATE= 9/16/75 SAMPTIME=1350     TEAMS   =803      DUMMY   =0
PH      = 7.69000 EH      = 210.000 TEMP    = 15.4000 COND    = 120.000 O2      = 8.60000 SO4     = 11.8930 PO4     = .105076
NO3     = .154770 NH3     = .081116 ALK     = .680000 FILT    = 1850.00 RESIN   = 500.000 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 3.00000 STRDEPTH= .200000 VELOCITY= 1.00000 STRSHAPE=TRAP     STRBOTOM=NOTDET
STRBOTOM=SAND     STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =SPARSE   STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =FARM     STRACT  =RESID    STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=CLOUDY   STRRAIN =NO
          **********************************************************************

SITE    =NCBA008  LATITUDE= 36.0139 LONGITUD= 82.2278 SAMPDATE= 9/17/75 SAMPTIME=1430     TEAMS   =801      DUMMY   =0
PH      = 8.12000 EH      = 344.000 TEMP    = 16.5300 COND    = 65.0000 O2      = 6.31000 SO4     =0.000000 PO4     =-.037205
NO3     = .118855 NH3     = .019653 ALK     = .600000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 4.00000 STRDEPTH= .400000 VELOCITY= 2.00000 STRSHAPE=RECT     STRBOTOM=ROCK
STRBOTOM=SILT     STRBED  =ERODED   STRLEVEL=HIGH     STRVEG  =MODERATE STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =FARM     STRACT  =RESID    STRSAMPW=         STRSAMPS=         STRCOLOR=BROWNT
STRWEATH=LIGHT    STRRAIN =YES
          **********************************************************************

SITE    =NCBA009  LATITUDE= 36.0111 LONGITUD= 82.1868 SAMPDATE= 9/17/75 SAMPTIME=0        TEAMS   =803      DUMMY   =0
PH      = 7.52000 EH      = 182.000 TEMP    = 15.9400 COND    = 8.00000 O2      = 8.69000 SO4     = 11.5957 PO4     = .052366
```

NURE MASTER FILE EDIT

```
NO3     = .177826 NH3     = .C6C194 ALK     = .360000 FILT    = 1250.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 6.00000 STRDEPTH= .500000 VELOCITY= 1.50000 STRSHAPE=CHANN    STRBOTOM=NOTDET
STRBOTOM=NOTDET   STRMED  =DEPOSIT STRLEVEL=HIGH     STRVEG  =SPARSE   STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =FARM     STRACT  =RESID    STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=MODERATE STRRAIN =YES
          **********************************************************************

SITE    =NCBA010  LATITUDE= 36.0182 LONGITUD= 82.1833 SAMPDATE= 9/17/75 SAMPTIME=1620     TEAMS   =803      DUMMY   =0
PH      = 7.67000 EH      = 230.000 TEMP    = 15.8000 COND    = 67.0000 O2      = 8.80000 SO4     = 3.30650 PO4     = .055233
NO3     = .159179 NH3     = .060194 ALK     = .420000 FILT    = 2044.00 RESIN   = 4544.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 7.CCC00 STRDEPTH= .300000 VELOCITY= 1.30000 STRSHAPE=RECT     STRBOTOM=NOTDET
STRBOTOM=NOTDET   STRMED  =DEPOSIT STRLEVEL=HIGH     STRVEG  =MODERATE STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =RESID    STRSAMPW=         STRSAMPS=         STRCOLOR=BRCWNT
STRWEATH=LIGHT    STRRAIN =YES
          **********************************************************************

SITE    =NCBA011  LATITUDE= 36.0254 LONGITUD= 82.2480 SAMPDATE= 9/17/75 SAMPTIME=1500     TEAMS   =801      DUMMY   =0
PH      = 8.15000 EH      = 372.000 TEMP    = 16.8300 COND    = 50.C000 O2      = 6.39000 SO4     =0.000000 PO4     = .157687
NO3     = .118855 NH3     = .019653 ALK     = .440000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 6.00000 STRDEPTH= 1.5C000 VELOCITY= 2.COCCO STRSHAPE=RECT     STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRMED  =ERODED   STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =RESID    STRACT  =FARM     STRSAMPW=RIGHT    STRSAMPS=RIGHT    STRCOLOR=
STRWEATH=MODERATE STRRAIN =NC
          **********************************************************************

SITE    =NCBA104  LATITUDE= 36.0026 LONGITUD= 82.2319 SAMPDATE= 9/16/75 SAMPTIME=1600     TEAMS   =803      DUMMY   =0
PH      = 6.58000 EH      = 277.000 TEMP    = 17.2000 COND    = 110.000 O2      = 8.90000 SO4     = 3.30650 PO4     =-.058972
NO3     = .040680 NH3     = .019653 ALK     = .620000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =C        WELTYPE =
WELCASE =         WELCLAS =PRIVATE  WELPOINT=OTHER    WELPIPE =GALV     WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=         WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =RESID    WELFREC =CONSTANT
          **********************************************************************

SITE    =NCBA107  LATITUDE= 36.0074 LONGITUD= 82.2473 SAMPDATE= 9/16/75 SAMPTIME=1320     TEAMS   =8C3      DUMMY   =0
PH      = 7.5CCCC EH      = 220.000 TEMP    = 16.0000 COND    = 123.000 O2      = 8.90000 SO4     = 9.71364 PO4     = .319542
NO3     = .221142 NH3     = .060194 ALK     = .780000 FILT    = 1900.00 RESIN   = 5CC.000 FORMNAME=          FORMAGE =
```


NURE MASTER FILE EDIT

```
ROCKTYPE=

        =GROUND   WELJR   =        WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =18       WELTYPE =
WELCASE =         WELCLAS =PRIVATE  WELPCINT=OTHER    WELPIPE =GALV     WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=         WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODCR =NCNE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =RESID    WELFREQ =CCNSTANT
          **********************************************************************

SITE    =NCBA108  LATITUDE= 36.0144 LONGITUD= 82.2282 SAMPDATE= 9/17/75 SAMPTIME=1520     TEAMS   =801      DUMMY   =0
PH      = 7.04000 EH      = 371.000 TEMP    = 15.1400 COND    = 52.0000 O2      = 3.48000 SO4     = 4.70018 PO4     = .105076
NO3     = 2.72557 NH3     =0.000000 ALK     = .860000 FILT    =0.000000 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GRCUND   WELOR   =WELL     WELDEPTH=85       WELSCREN=0        WELAGE  =25       WELAGEP =3        WELTYPE =DRILLED
WELCASE =YES      WELCLAS =PRIVATE  WELPCINT=CTHER    WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NINE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODCR =NCNE     WELACT  =         WELACT  =         WELACT  =
WELACT  =DUMP     WELACT  =RESID    WELFREQ =CONSTANT
          **********************************************************************

SITE    =NCBA109  LATITUDE= 36.0124 LONGITUD= 82.1890 SAMPDATE= 9/17/75 SAMPTIME=1400     TEAMS   =803      DUMMY   =0
PH      = 6.48000 EH      = 279.000 TEMP    = 14.7000 COND    = 115.000 O2      = 7.43000 SO4     = 5.78668 PO4     = .105076
NO3     = 2.36000 NH3     =0.000000 ALK     = .460000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =         WELDEPTH=0        WELSCREN=0        WELAGE  =20       WELAGEP =4        WELTYPE =DRILLED
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=PUMP     WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=         WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =RESID    WELFREC =CONSTANT
          **********************************************************************

SITE    =NCBA110  LATITUDE= 36.0153 LONGITUD= 82.1675 SAMPDATE= 9/17/75 SAMPTIME=1700     TEAMS   =8C3      DUMMY   =0
PH      = 7.92000 EH      = 251.000 TEMP    = 20.4400 COND    = 137.000 O2      = 5.12000 SO4     = 22.7050 PO4     =-.026132
NO3     = .017092 NH3     =0.000000 ALK     = .460000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GRCUND   WELOR   =WELL     WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =
WELCASE =         WELCLAS =         WELPCINT=MUNIC    WELPIPE =         WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=         WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODCR =NCNE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =RESID    WELFREQ =CCNSTANT
          **********************************************************************

SITE    =NCBA111  LATITUDE= 36.0298 LONGITUD= 82.2487 SAMPDATE= 9/17/75 SAMPTIME=1515     TEAMS   =801      DUMMY   =0
PH      = 8.75000 EH      = 412.000 TEMP    = 17.9000 COND    = 52.C000 O2      = 6.27000 SO4     =0.000000 PO4     = .157687
NO3     = 2.01514 NH3     =0.000000 ALK     = .440000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=
```

NURE MASTER FILE EDIT

```
        =GROUND   WELOR   =          WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =13       WELTYPE =
WELCASE =         WELCLAS =PRIVATE   WELPOINT=OTHER    WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN    WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM      WELFREQ =CONSTANT
          **********************************************************************


SITE    =NCBA209  LATITUDE= 36.0172 LONGITUD= 82.2063 SAMPDATE= 9/23/71 SAMPTIME=1145     TEAMS   =B01      DUMMY   =0
PH      = 6.55000 EH      = 330.000 TEMP    = 17.9400 COND    = 112.000 O2      = 6.18000 SO4     =0.000000 PO4     = .227850
NO3     = 4.00957 NH3     =0.000000 ALK     = .740000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=         FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =          WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =21       WELTYPE =
WELCASE =         WELCLAS =PRIVATE   WELPOINT=OTHER    WELPIPE =GALV     WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN    WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =NONE      WELFREQ =CONSTANT
          **********************************************************************


SITE    =NCBA301  LATITUDE= 36.0025 LONGITUD= 82.1836 SAMPDATE= 9/23/75 SAMPTIME=1215     TEAMS   =B03      DUMMY   =0
PH      = 6.77000 EH      = 354.000 TEMP    = 13.6500 COND    = 47.0000 O2      = 6.92000 SO4     = 30.2292 PO4     = .476246
NO3     = .173003 NH3     =0.000000 ALK     = .320000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=         FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =SPRING    WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =
WELCASE =         WELCLAS =PRIVATE   WELPOINT=WELL     WELPIPE =         WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN    WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM      WELFREQ =CONSTANT
          **********************************************************************


SITE    =NCBU001  LATITUDE= 35.9996 LONGITUD= 82.2685 SAMPDATE= 9/16/75 SAMPTIME=1845     TEAMS   =B01      DUMMY   =0
PH      = 7.79000 EH      = 219.000 TEMP    = 16.8500 COND    = 81.0000 O2      = 6.11000 SO4     = 10.9890 PO4     = .157687
NO3     = .050931 NH3     =0.000000 ALK     = .460000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=         FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0         STRWIDTH= 10.0000 STRDEPTH= 2.00000 VELOCITY= 2.00000 STRSHAPE=TRAP     STRBOTOM=
STRBOTOM=SANDGRAV STRBED  =ERODED    STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =RESID    STRACT  =FARM     STRSAMPW=RIGHT    STRSAMPS=RIGHT    STRCOLOR=
STRWEATH=CLOUDY   STRRAIN =NO
          **********************************************************************


SITE    =NCBU002  LATITUDE= 35.9905 LONGITUD= 82.2567 SAMPDATE= 9/16/75 SAMPTIME=1715     TEAMS   =B01      DUMMY   =0
PH      = 7.74000 EH      = 221.000 TEMP    = 15.6900 COND    = 86.0000 O2      = 7.11000 SO4     =0.000000 PO4     = .031264
NO3     = .104713 NH3     = .102498 ALK     = .480000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=         FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0         STRWIDTH= 4.00000 STRDEPTH= .500000 VELOCITY= 2.00000 STRSHAPE=RECT     STRBOTOM=ROCK
```


NURE MASTER FILE EDIT

```
STRBOTOM=SANDGRAV STRBED  =ERODED    STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =          STRACT  =FARM     STRACT  =RESID    STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=         STRRAIN =NO
          **********************************************************************


SITE    =NCBU003  LATITUDE= 35.9851 LONGITUD= 82.2707 SAMPDATE= 9/18/75 SAMPTIME=1300     TEAMS   =B01      DUMMY   =0
PH      = 8.04000 EH      = 281.000 TEMP    = 17.1700 COND    = 38.0000 O2      = 6.39000 SO4     = 4.04007 PO4     = .213394
NO3     = .012643 NH3     = .081116 ALK     = .300000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=         FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0         STRWIDTH= 15.0000 STRDEPTH= 1.00000 VELOCITY= 2.00000 STRSHAPE=RECT     STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =ERODED    STRLEVEL=HIGH     STRVEG  =MODERATE STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =SEWAGE    STRACT  =FARM     STRACT  =RESID    STRSAMPW=RIGHT    STRSAMPS=RIGHT    STRCOLOR=BROWNT
STRWEATH=LIGHT    STRRAIN =YES
          **********************************************************************


SITE    =NCBU004  LATITUDE= 35.9724 LONGITUD= 82.2680 SAMPDATE= 9/18/75 SAMPTIME=1415     TEAMS   =B01      DUMMY   =0
PH      = 7.85000 EH      = 456.000 TEMP    = 16.6300 COND    = 29.0000 O2      = 6.40000 SO4     = 4.70018 PO4     = .007886
NO3     = .134047 NH3     =0.000000 ALK     = .260000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=         FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0         STRWIDTH= 6.00000 STRDEPTH= 1.50000 VELOCITY= 3.00000 STRSHAPE=TRAP     STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =ERODED    STRLEVEL=HIGH     STRVEG  =MODERATE STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =          STRACT  =FARM     STRACT  =RESID    STRSAMPW=         STRSAMPS=RIGHT    STRCOLOR=BROWNC
STRWEATH=CLOUDY   STRRAIN =YES
          **********************************************************************


SITE    =NCBU005  LATITUDE= 35.9363 LONGITUD= 82.2502 SAMPDATE= 9/14/75 SAMPTIME=1300     TEAMS   =B01      DUMMY   =0
PH      = 7.51000 EH      = 248.000 TEMP    = 15.3800 COND    = 48.0000 O2      = 7.05000 SO4     =0.000000 PO4     = .031264
NO3     = .122549 NH3     =0.000000 ALK     = .280000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=         FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0         STRWIDTH= 4.00000 STRDEPTH= .800000 VELOCITY= 3.00000 STRSHAPE=RECT     STRBOTOM=SAND
STRBOTOM=ROCK     STRBED  =ERODED    STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=GENTLE   STRPREC =RED      STRACT  =
STRACT  =         STRACT  =          STRACT  =FARM     STRACT  =RESID    STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=         STRRAIN =NO
          **********************************************************************


SITE    =NCBU101  LATITUDE= 35.9957 LONGITUD= 82.2695 SAMPDATE= 9/16/75 SAMPTIME=1800     TEAMS   =B01      DUMMY   =0
PH      =0.000000 EH      = 186.000 TEMP    = 18.7100 COND    = 125.000 O2      = 6.31000 SO4     = 9.37821 PO4     = .227850
NO3     = .134047 NH3     = .019653 ALK     = .580000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=         FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =SPRING    WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =3        WELTYPE =
WELCASE =         WELCLAS =PRIVATE   WELPOINT=OTHER    WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
```

NURE MASTER FILE EDIT

```
WELTREAT=NONE      WELLSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =          WELACT  =NONE     WELFREQ =DAILY
        ************************************************************************

SITE    =NCBU102  LATITUDE= 35.9909 LONGITUD= 82.2569 SAMPDATE= 9/16/75 SAMPTIME=1400     TEAMS   =801      DUMMY   =0
PH      = 6.53000 EH      = 346.000 TEMP    = 18.3200 COND    = 166.000 O2      = 5.03000 SO4     = 10.3632 PO4     =-.014928
NO3     = .319913 NH3     = .019653 ALK     = .720000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=           FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =
WELCASE =         WELCLAS =PRIVATE  WELPOINT=         WELPIPE =         WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=         WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =
        ************************************************************************

SITE    =NCBU103  LATITUDE= 35.9851 LONGITUD= 82.2701 SAMPDATE= 9/18/75 SAMPTIME=1230     TEAMS   =801      DUMMY   =0
PH      = 6.74000 EH      = 306.000 TEMP    = 19.3900 COND    = 54.0000 O2      = 5.79000 SO4     =0.000000 PO4     = .303632
NO3     = .040680 NH3     = .039712 ALK     = .620000 FILT    = 2100.00 RESIN   = 500.000 FORMNAME=           FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =
WELCASE =         WELCLAS =SEMIPRIV WELPOINT=OTHER    WELPIPE =GALV     WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
        ************************************************************************

SITE    =NCBU104  LATITUDE= 35.9721 LONGITUD= 82.2685 SAMPDATE= 9/18/75 SAMPTIME=1330     TEAMS   =801      DUMMY   =0
PH      = 6.88000 EH      = 431.000 TEMP    = 18.0200 COND    = 55.0000 O2      = 5.81000 SO4     = 3.30650 PO4     = .303632
NO3     = .035740 NH3     =0.000000 ALK     = .640000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=           FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =16       WELTYPE =
WELCASE =         WELCLAS =PRIVATE  WELPOINT=         WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
        ************************************************************************

SITE    =NCBU105  LATITUDE= 35.9372 LONGITUD= 82.2502 SAMPDATE= 9/14/75 SAMPTIME=1400     TEAMS   =801      DUMMY   =0
PH      = 6.84000 EH      = 388.000 TEMP    = 16.7500 COND    = 55.0000 O2      = 7.25000 SO4     = 4.70018 PO4     = .476246
NO3     = .091483 NH3     = .039712 ALK     = .360000 FILT    = 2100.00 RESIN   = 500.000 FORMNAME=           FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =
WELCASE =         WELCLAS =PRIVATE  WELPOINT=         WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=         WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
```


NURE MASTER FILE EDIT

```
WELACT  =          WELACT  =FARM     WELFREQ =CONSTANT
        ************************************************************************

SITE    =NCHU001  LATITUDE= 36.0143 LONGITUD= 82.2666 SAMPDATE= 9/16/75 SAMPTIME=1030     TEAMS   =801      DUMMY   =0
PH      = 7.91000 EH      = 319.000 TEMP    = 13.9600 COND    = 47.0000 O2      = 7.90000 SO4     = 7.14416 PO4     = .075826
NO3     = .040680 NH3     =0.000000 ALK     = .300000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 36.0000 STRDEPTH= 2.00000 VELOCITY= 1.00000 STRSHAPE=RECT     STRBOTOM=NOTDET
STRBOTOM=NOTDET   STRBED  =DEPOSIT  STRLEVEL=LOW      STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=LEFT     STRSAMPS=LEFT     STRCOLOR=BRCWNT
STRWEATH=CLOUDY   STRRAIN =NO
        ************************************************************************

SITE    =NCHU101  LATITUDE= 36.0048 LONGITUD= 82.2732 SAMPDATE= 9/16/75 SAMPTIME=1300     TEAMS   =801      DUMMY   =0
PH      = 6.52000 EH      = 297.000 TEMP    = 19.0000 COND    = 115.000 O2      = 3.63000 SO4     = 9.37821 PO4     = .031264
NO3     = 2.46799 NH3     =0.000300 ALK     = .700300 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=           FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=73       WELSCREN=0        WELAGE  =0        WELAGEP =6        WELTYPE =DRILLED
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=OTHER    WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =NONE     WELFREQ =CONSTANT
        ************************************************************************

SITE    =NCMI001  LATITUDE= 35.9967 LONGITUD= 82.2497 SAMPDATE= 9/16/75 SAMPTIME=1600     TEAMS   =801      DUMMY   =0
PH      = 7.59000 EH      = 202.000 TEMP    = 16.0900 COND    = 119.000 O2      = 6.70000 SO4     = 6.71748 PO4     = .403383
NO3     = .064511 NH3     =0.000000 ALK     = .840000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 4.00000 STRDEPTH= .400000 VELOCITY= 1.00000 STRSHAPE=RECT     STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =BROCEO   STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =RESIC    STRACT  =FARM     STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=         STRRAIN =NO
        ************************************************************************

SITE    =NCMI002  LATITUDE= 35.9893 LONGITUD= 82.2500 SAMPDATE= 9/16/75 SAMPTIME=1350     TEAMS   =801      DUMMY   =0
PH      =0.000000 EH      = 241.000 TEMP    = 14.7500 COND    = 68.0000 O2      = 6.11000 SO4     = 5.26868 PO4     = .403383
NO3     = .030917 NH3     =0.000000 ALK     = .500000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 4.00000 STRDEPTH= .400000 VELOCITY= 2.00000 STRSHAPE=RECT     STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =BROCEO   STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =RESIC    STRACT  =FARM     STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=         STRRAIN =NC
```

NURE MASTER FILE EDIT

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**********************************************************************

SITE    =NCMI003  LATITUDE= 35.9942 LONGITUD= 82.2332 SAMPDATE= 9/12/75 SAMPTIME=1330     TEAMS   =B02      DUMMY   =0
PH      = 7.79000 EH      = 135.000 TEMP    = 19.5100 COND    = 50.0000 O2      = 6.82000 SO4     = 5.26868 PO4     = .052366
NO3     = .010514 NH3     = .091749 ALK     = .380000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 10.0000 STRDEPTH= .800000 VELOCITY= 1.00000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =MINE     STRACT  =FARM     STRACT  =RESID    STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=LIGHT    STRRAIN =YES
**********************************************************************

SITE    =NCMI004  LATITUDE= 35.9920 LONGITUD= 82.2329 SAMPDATE= 9/13/75 SAMPTIME=1245     TEAMS   =B02      DUMMY   =0
PH      = 7.52000 EH      = 276.000 TEMP    = 15.7600 COND    = 90.0000 O2      = 6.64000 SO4     = 5.78668 PO4     = .368950
NO3     = .118855 NH3     = .113368 ALK     = .920000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 3.00000 STRDEPTH= 1.50000 VELOCITY= .500000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=SILT     STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =SPARSE   STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =MINE     STRACT  =FARM     STRACT  =RESID    STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=BRCWHT
STRWEATH=         STRRAIN =NO
**********************************************************************

SITE    =NCMI005  LATITUDE= 35.9908 LONGITUD= 82.2329 SAMPDATE= 9/13/75 SAMPTIME=1200     TEAMS   =B02      DUMMY   =0
PH      = 7.58000 EH      = 172.000 TEMP    = 16.5800 COND    = 52.0000 O2      = 6.77000 SO4     = 6.26682 PO4     = .031264
NO3     = .111662 NH3     = .102498 ALK     = .500000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 2.00000 STRDEPTH= .100000 VELOCITY= .500000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=SANDGRAV STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =SPARSE   STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =MINE     STRACT  =FARM     STRACT  =RESID    STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=         STRRAIN =NO
**********************************************************************

SITE    =NCMI006  LATITUDE= 35.9904 LONGITUD= 82.2317 SAMPDATE= 9/13/75 SAMPTIME=930      TEAMS   =B02      DUMMY   =0
PH      = 7.51000 EH      = 77.0000 TEMP    = 13.6200 COND    = 40.0000 O2      = 7.20000 SO4     = 4.70018 PO4     = .067450
NO3     = .104712 NH3     = .060194 ALK     = .400000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 4.00000 STRDEPTH= .800000 VELOCITY= 2.00000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =SPARSE   STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =MINE     STRACT  =FARM     STRACT  =RESID    STRSAMPW=         STRSAMPS=RIGHT    STRCOLOR=
STRWEATH=         STRRAIN =YES
**********************************************************************
```


NURE MASTER FILE EDIT

```
SITE    =NCMI007  LATITUDE= 35.9889 LONGITUD= 82.2287 SAMPDATE= 9/13/75 SAMPTIME=1400     TEAMS   =B02      DUMMY   =0
PH      = 7.79000 EH      = 121.000 TEMP    = 16.8500 COND    = 42.0000 O2      = 7.60000 SO4     = 4.70018 PO4     = .105076
NO3     = .070206 NH3     = .029631 ALK     = .360000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 8.00000 STRDEPTH= 1.00000 VELOCITY= 1.00000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =DEPOSIT  STRLEVEL=LOW      STRVEG  =MODERATE STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =MINE     STRACT  =FARM     STRACT  =RESID    STRSAMPW=         STRSAMPS=RIGHT    STRCOLOR=
STRWEATH=         STRRAIN =NO
**********************************************************************

SITE    =NCMI008  LATITUDE= 35.9849 LONGITUD= 82.2278 SAMPDATE= 9/13/75 SAMPTIME=1500     TEAMS   =B02      DUMMY   =0
PH      = 7.67000 EH      = 172.000 TEMP    = 16.5000 COND    = 43.0000 O2      = 5.69000 SO4     = 6.26682 PO4     = .019503
NO3     = .070206 NH3     = .019653 ALK     = .360000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 10.0000 STRDEPTH= 1.00000 VELOCITY= 1.50000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =MINE     STRACT  =FARM     STRACT  =RESID    STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=         STRRAIN =NO
**********************************************************************

SITE    =NCMI009  LATITUDE= 35.9827 LONGITUD= 82.2292 SAMPDATE= 9/13/75 SAMPTIME=1645     TEAMS   =B02      DUMMY   =0
PH      = 7.61000 EH      = 10.0000 TEMP    = 15.0500 COND    = 65.0000 O2      = 5.21000 SO4     = 4.70018 PO4     = .335727
NO3     = .076063 NH3     = .039712 ALK     = .640000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 2.00000 STRDEPTH= .400000 VELOCITY= 1.00000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =MINE     STRACT  =FARM     STRACT  =RESID    STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=         STRRAIN =NO
**********************************************************************

SITE    =NCMI010  LATITUDE= 35.9786 LONGITUD= 82.2312 SAMPDATE= 9/15/75 SAMPTIME=1545     TEAMS   =B02      DUMMY   =0
PH      = 7.70000 EH      = 220.000 TEMP    = 13.7400 COND    = 56.0000 O2      = 6.17000 SO4     = 6.26682 PO4     = .067450
NO3     = .070206 NH3     = .039712 ALK     = .520000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 3.00000 STRDEPTH= .500000 VELOCITY= 1.00000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =OPEN     STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =MINE     STRACT  =FARM     STRACT  =RESID    STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=         STRRAIN =NO
**********************************************************************

SITE    =NCMI011  LATITUDE= 35.9787 LONGITUD= 82.2354 SAMPDATE= 9/15/75 SAMPTIME=1700     TEAMS   =B02      DUMMY   =0
```

NURE MASTER FILE EDIT

```
PH      = 7.63000 EH      = 236.CCO TEMP    = 13.4500 CCND    = 57.0000 02      = 6.84000 SO4     = 6.71748 PO4     = .031264
NO3     = .073113 NH3     = .019653 ALK     = .540000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 6.CCOOO STRDEPTH= .500000 VELOCITY= 1.00000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =MINE     STRACT  =FARM     STRACT  =RESIC    STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=         STRRAIN =NO
          ********************************************************************

SITE    =NCMI012  LATITUDE= 35.9774 LONGITUD= 82.2374 SAMPDATE= 9/16/75 SAMPTIME=930      TEAMS   =802      DUMMY   =0
PH      = 7.28000 EH      = 173.000 TEMP    = 12.1300 COND    = 32.0000 02      = 2.90000 SC4     = 4.70018 PO4     = .031264
NO3     = .150454 NH3     =0.00000C ALK     = .240000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 5.00000 STRDEPTH= .8C0000 VELOCITY= 1.COOCO STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =DEPOSIT  STRLEVEL=NCRMAL   STRVEG  =MODERATE STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =MINE     STRACT  =FARM     STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=CLCUDY   STRRAIN =NO
          ********************************************************************

SITE    =NCMI013  LATITUCE= 35.9779 LONGITUC= 82.2376 SAMPDATE= 9/16/75 SAMPTIME=1030     TEAMS   =802      CUMMY   =0
PH      = 6.57CCC EH      = 67.0CCO TEMP    = 14.1300 CONC    = 68.0000 02      = 3.14000 SO4     = 3.30650 PO4     =-.037205
NO3     = .012683 NH3     = .241708 ALK     = .760000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =C        STRWIDTH= 3.CCOOO STRDEPTH= .500000 VELCCITY= .500000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =DEPCSIT  STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =MINE     STRACT  =FARM     STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=CLCUDY   STRRAIN =NO
          ********************************************************************

SITE    =NCMI014  LATITUDE= 35.9779 LONGITUD= 82.2399 SAMPDATE= 9/14/75 SAMPTIME=1430     TEAMS   =802      DUMMY   =0
PH      = 6.83000 EH      = 148.000 TEMP    = 13.1100 COND    = 88.0000 02      = 6.58000 SC4     =0.000000 PO4     = .257438
NO3     = .177026 NH3     = .146725 ALK     = .660000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 1.CCOOO STRDEPTH= .2C0000 VELCCITY= .9CC000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=SANDGRAV STRBED  =DEPCSIT  STRLEVEL=NCRMAL   STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =MINE     STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=         STRRAIN =NC
          ********************************************************************

SITE    =NCMI015  LATITUCE= 35.9784 LONGITUD= 82.2413 SAMPDATE= 9/16/75 SAMPTIME=1430     TEAMS   =802      CUMMY   =0
PH      =0.CCCCCC EH      =0.000000 TEMP    =0.000000 COND    =0.000000 02      =0.000000 SO4     =0.CCCCCC PO4     =0.000000
```


NURE MASTER FILE EDIT

```
NO3     =C.CCCCOC NH3     =0.000000 ALK     =0.000000 FILT    =0.000000 RESIN   =0.000000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 2.CCOOO STRDEPTH=0.CCCCOO VELCCITY=0.CCCCOO STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =DEPOSIT  STRLEVEL=DRY      STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =MINE     STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=CLOUDY   STRRAIN =NO
          ********************************************************************

SITE    =NCMI016  LATITUCE= 35.9765 LONGITUD= 82.2438 SAMPDATE= 9/16/75 SAMPTIME=1215     TEAMS   =802      CUMMY   =0
PH      = 7.45000 EH      = 298.000 TEMP    = 11.5000 COND    = 46.0000 02      = 3.23000 SC4     = 5.26868 PO4     = .067450
NO3     = 2.72557 NH3     = .009777 ALK     = .340000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 1.00000 STRDEPTH= .100000 VELOCITY= 1.50000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=CLOUDY   STRRAIN =NO
          ********************************************************************

SITE    =NCMI017  LATITUDE= 35.9774 LONGITUD= 82.2444 SAMPDATE= 9/16/75 SAMPTIME=1330     TEAMS   =802      DUMMY   =0
PH      =0.CCCCOO EH      =0.000000 TEMP    =0.CCCOOO COND    =0.000000 02      =0.000000 SO4     =0.CCCCCO PO4     =0.000000
NO3     =0.000000 NH3     =0.000000 ALK     =C.CCCOOO FILT    =0.CCCOOO RESIN   =0.CCCCCO FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH=C.CCCOOO STRDEPTH=0.000000 VELCCITY=0.000000 STRSHAPE=         STRBOTOM=
STRBOTOM=         STRBED  =         STRLEVEL=         STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =         STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=CLOUDY   STRRAIN =NO
          ********************************************************************

SITE    =NCMI018  LATITUDE= 35.9774 LONGITUD= 82.2303 SAMPDATE= 9/14/75 SAMPTIME=1830     TEAMS   =802      DUMMY   =0
PH      = 7.54000 EH      = 130.000 TEMP    = 14.1600 COND    = 38.0000 02      = 6.24000 SC4     = 6.71748 PO4     = .335727
NO3     = .05C931 NH3     = .019653 ALK     = .320000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 6.00000 STRDEPTH= .8C0000 VELOCITY= 1.5COOC STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =DEPOSIT  STRLEVEL=NCRMAL   STRVEG  =SPARSE   STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =MINE     STRACT  =FARM     STRACT  =RESID    STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=         STRRAIN =NO
          ********************************************************************

SITE    =NCMI019  LATITUCE= 35.9746 LONGITUD= 82.2313 SAMPDATE= 9/14/75 SAMPTIME=1800     TEAMS   =802      CUMMY   =0
PH      = 7.33C00 EH      = 111.000 TEMP    = 13.0500 CONC    = 33.0000 02      = 6.40000 SO4     = 3.30650 PO4     = .007886
NO3     = .061722 NH3     = .019653 ALK     = .260000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
```

NURE MASTER FILE EDIT

```
ROCKTYPE=

        =STREAM   BASIN   =0         STRWIDTH= 5.00000 STRDEPTH= .700000 VELOCITY= 1.50000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =MINE     STRACT  =FARM     STRACT  =RESID    STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=         STRRAIN =NO
          **********************************************************************

SITE    =NCMI020  LATITUDE= 35.9713 LONGITUD= 82.2335 SAMPDATE= 9/15/75 SAMPTIME=1945     TEAMS   =BC2      DUMMY   =0
PH      = 7.25000 EH      = 206.000 TEMP    = 12.6000 COND    = 37.0000 O2      = 5.44000 SO4     =0.000000 PO4     =-.101056
NO3     = .150454 NH3     =0.000000 ALK     = .320000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=         FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0         STRWIDTH= 3.00000 STRDEPTH= .300000 VELOCITY= .500000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =FARM     STRACT  =RESID    STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=         STRRAIN =NO
          **********************************************************************

SITE    =NCMI021  LATITUDE= 35.9708 LONGITUD= 82.2330 SAMPDATE= 9/15/75 SAMPTIME=1130     TEAMS   =BC2      DUMMY   =0
PH      = 7.26000 EH      = 373.000 TEMP    = 11.6900 COND    = 28.0000 O2      = 6.40000 SO4     = 3.30650 PO4     =-.037205
NO3     = .088305 NH3     = .070558 ALK     = .240000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=         FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0         STRWIDTH= 5.00000 STRDEPTH= .800000 VELOCITY= 1.50000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=         STRRAIN =NO
          **********************************************************************

SITE    =NCMI022  LATITUDE= 35.9641 LONGITUD= 82.2322 SAMPDATE= 9/16/75 SAMPTIME=1700     TEAMS   =BC2      DUMMY   =0
PH      = 7.65000 EH      = 409.000 TEMP    = 12.5900 COND    = 27.0000 O2      = 4.19000 SO4     =0.000000 PO4     = .144257
NO3     = .021597 NH3     =0.000000 ALK     = .200000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=         FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0         STRWIDTH= 10.0000 STRDEPTH= .100000 VELOCITY= 2.00000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=         STRSAMPS=LEFT     STRCOLOR=
STRWEATH=CLOUDY   STRRAIN =NO
          **********************************************************************

SITE    =NCMI023  LATITUDE= 35.9638 LONGITUD= 82.2337 SAMPDATE= 9/16/75 SAMPTIME=1845     TEAMS   =BC2      DUMMY   =0
PH      = 7.68000 EH      = 184.000 TEMP    = 12.6600 COND    = 26.0000 O2      = 3.45000 SO4     = 3.30650 PO4     = .213394
NO3     = .061722 NH3     =0.000000 ALK     = .220000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=         FORMAGE =
ROCKTYPE=
```


NURE MASTER FILE EDIT

```
        =STREAM   BASIN   =0         STRWIDTH= 3.00000 STRDEPTH= .200000 VELOCITY= 1.30000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=CLOUDY   STRRAIN =NO
          **********************************************************************

SITE    =NCMI024  LATITUDE= 35.9636 LONGITUD= 82.2352 SAMPDATE= 9/16/75 SAMPTIME=1745     TEAMS   =BC2      DUMMY   =0
PH      = 7.48000 EH      = 184.000 TEMP    = 12.4100 COND    = 28.0000 O2      = 5.16000 SO4     =0.000000 PO4     = .555190
NO3     = .045741 NH3     = .060194 ALK     = .260000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=         FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0         STRWIDTH= 5.00000 STRDEPTH= .500000 VELOCITY= 1.30000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=CLOUDY   STRRAIN =NO
          **********************************************************************

SITE    =NCMI025  LATITUDE= 35.9997 LONGITUD= 82.2214 SAMPDATE= 9/12/75 SAMPTIME=930      TEAMS   =BC2      DUMMY   =0
PH      = 7.89000 EH      = 161.000 TEMP    = 17.5900 COND    = 83.0000 O2      = 4.58000 SO4     = 4.70018 PO4     = .151016
NO3     = .094711 NH3     = .051749 ALK     = .780000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=         FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0         STRWIDTH= 3.00000 STRDEPTH= .700000 VELOCITY= 1.00000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=         STRRAIN =YES
          **********************************************************************

SITE    =NCMI026  LATITUDE= 35.9985 LONGITUD= 82.2214 SAMPDATE= 9/11/75 SAMPTIME=1730     TEAMS   =BC2      DUMMY   =0
PH      = 7.82000 EH      = 162.000 TEMP    = 18.2800 COND    = 65.0000 O2      = 6.39000 SO4     = 6.26682 PO4     = .272586
NO3     = .110855 NH3     = .019653 ALK     = .560000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=         FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0         STRWIDTH= 2.00000 STRDEPTH= .600000 VELOCITY= 1.50000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=SANDGRAV STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =OPEN     STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =RESID    STRACT  =FARM     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=BROWNT
STRWEATH=CLOUDY   STRRAIN =NO
          **********************************************************************

SITE    =NCMI027  LATITUDE= 35.9993 LONGITUD= 82.2213 SAMPDATE= 9/11/75 SAMPTIME=1600     TEAMS   =BC2      DUMMY   =0
PH      = 7.75000 EH      = 228.000 TEMP    = 19.9600 COND    = 64.0000 O2      = 5.54000 SO4     = 3.30650 PO4     = .157687
NO3     = .118655 NH3     = .051749 ALK     = .500000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=         FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0         STRWIDTH= 4.00000 STRDEPTH= .600000 VELOCITY= 1.00000 STRSHAPE=RECT     STRBOTOM=
```

NURE MASTER FILE EDIT

```
STRBOTOM=SANDGRAV STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=MODERATE STRPREC =NONE      STRACT  =
STRACT  =         STRACT  =         STRACT  =RESID    STRACT  =FARM     STRSAMPW=          STRSAMPS=          STRCOLOR=BROWNT
STRWEATH=CLOUDY   STRRAIN =NO
          ********************************************************************************


SITE    =NCMI028  LATITUDE= 35.9920 LONGITUD= 82.2204 SAMPDATE= 9/11/75 SAMPTIME=1230     TEAMS   =802      DUMMY   =0
PH      = 7.62000 EH      = 38.0000 TEMP    = 17.7000 COND    = 58.0000 O2      = 5.96000 SO4     = 6.71748 PO4     = .575496
NO3     = .130142 NH3     = .049900 ALK     = .500000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 3.00000 STRDEPTH= .600000 VELOCITY= 1.00000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=SANDGRAV STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =RESID    STRACT  =FARM     STRSAMPW=          STRSAMPS=          STRCOLOR=
STRWEATH=CLOUDY   STRRAIN =NO
          ********************************************************************************


SITE    =NCMI029  LATITUDE= 35.9925 LONGITUD= 82.2191 SAMPDATE= 9/11/75 SAMPTIME=1500     TEAMS   =802      DUMMY   =0
PH      = 7.53000 EH      = 128.000 TEMP    = 18.2100 COND    = 64.0000 O2      = 4.97000 SO4     = 6.26682 PO4     = .534828
NO3     = .134047 NH3     = .081116 ALK     = .640000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 1.00000 STRDEPTH= .300000 VELOCITY= .400000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=SANDGRAV STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=          STRSAMPS=          STRCOLOR=
STRWEATH=CLOUDY   STRRAIN =NO
          ********************************************************************************


SITE    =NCMI030  LATITUDE= 35.9920 LONGITUD= 82.2191 SAMPDATE= 9/11/75 SAMPTIME=1400     TEAMS   =802      DUMMY   =0
PH      = 7.71000 EH      = 116.000 TEMP    = 18.5000 COND    = 82.0000 O2      = 3.57000 SO4     = 7.55108 PO4     = .303632
NO3     = .115227 NH3     = .039712 ALK     = .760000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 1.00000 STRDEPTH= .300000 VELOCITY= .500000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=SANDGRAV STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=          STRSAMPS=          STRCOLOR=
STRWEATH=CLOUDY   STRRAIN =NO
          ********************************************************************************


SITE    =NCMI031  LATITUDE= 35.9886 LONGITUD= 82.2199 SAMPDATE= 9/10/75 SAMPTIME=1700     TEAMS   =802      DUMMY   =0
PH      = 7.66000 EH      = 102.000 TEMP    = 17.2500 COND    = 60.0000 O2      = 5.36000 SO4     =0.000000 PO4     = .736072
NO3     = .082092 NH3     =0.000000 ALK     = .580000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 4.00000 STRDEPTH= .400000 VELOCITY= 1.00000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=SANDGRAV STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=MODERATE STRPREC =NONE     STRACT  =
```


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```
STRACT  =         STRACT  =         STRACT  =FARM     STRACT  =RESID    STRSAMPW=          STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=CLOUDY   STRRAIN =NO
          ********************************************************************************


SITE    =NCMI032  LATITUDE= 35.9861 LONGITUD= 82.2174 SAMPDATE= 9/11/75 SAMPTIME=1100     TEAMS   =802      DUMMY   =0
PH      = 7.67000 EH      = 172.000 TEMP    = 17.4500 COND    = 67.0000 O2      = 4.60000 SO4     = 6.26682 PO4     = .959875
NO3     = .044799 NH3     = .081116 ALK     = .560000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 2.00000 STRDEPTH= .400000 VELOCITY= 1.00000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =FARM     STRACT  =RESID    STRSAMPW=          STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=CLOUDY   STRRAIN =YES
          ********************************************************************************


SITE    =NCMI033  LATITUDE= 35.9854 LONGITUD= 82.2179 SAMPDATE= 9/11/75 SAMPTIME=1000     TEAMS   =802      DUMMY   =0
PH      = 7.49000 EH      = 107.000 TEMP    = 16.3900 COND    = 56.0000 O2      = 6.45000 SO4     = 4.70018 PO4     = .303632
NO3     = .073112 NH3     =0.000000 ALK     = .480000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 2.00000 STRDEPTH= .400000 VELOCITY= 1.00000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =FARM     STRACT  =RESID    STRSAMPW=          STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=CLOUDY   STRRAIN =YES
          ********************************************************************************


SITE    =NCMI034  LATITUDE= 35.9809 LONGITUD= 82.2078 SAMPDATE= 9/10/75 SAMPTIME=1245     TEAMS   =802      DUMMY   =0
PH      = 7.71000 EH      = 222.000 TEMP    = 20.6400 COND    = 44.0000 O2      = 4.82000 SO4     = 5.71364 PO4     = .687510
NO3     = .023888 NH3     =0.000000 ALK     = .420000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 4.00000 STRDEPTH= .500000 VELOCITY= 1.00000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =FARM     STRACT  =RESID    STRSAMPW=          STRSAMPS=          STRCOLOR=
STRWEATH=         STRRAIN =NO
          ********************************************************************************


SITE    =NCMI035  LATITUDE= 35.9912 LONGITUD= 82.1981 SAMPDATE= 9/10/75 SAMPTIME=1500     TEAMS   =802      DUMMY   =0
PH      = 7.81000 EH      = 198.000 TEMP    = 15.3500 COND    = 54.0000 O2      = 6.43000 SO4     = 6.26682 PO4     = .959875
NO3     = .138027 NH3     =0.000000 ALK     = .480000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 7.00000 STRDEPTH= .600000 VELOCITY= 1.00000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =RESID    STRACT  =FARM     STRSAMPW=          STRSAMPS=          STRCOLOR=
```

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```
STRWEATH=CLOUDY   STRRAIN =NO
          **********************************************************************


SITE     =NCMI036  LATITUDE= 35.7769 LONGITUD= 82.1946 SAMPDATE= 9/10/75 SAMPTIME=1115     TEAMS    =802      DUMMY    =0
PH       = 7.51000 EH       = 147.000 TEMP     = 16.8200 COND     = 42.0000 O2       = 6.21000 SO4      = 4.06002 PO4      = .272586
NO3      = .246799 NH3      =0.000000 ALK      = .380000 FILT     = 2000.00 RESIN    = 500.000 FORMNAME=          FORMAGE  =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 4.00000 STRDEPTH= .600000 VELOCITY= 1.00000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET    STRBED   =DEPOSIT  STRLEVEL=NORMAL   STRVEG   =FOREST   STRRELIF=MODERATE STRPREC =NONE     STRACT   =
STRACT   =         STRACT   =         STRACT   =FARM     STRACT   =RESID    STRSAMPW=          STRSAMPS=          STRCOLOR=
STRWEATH=          STRRAIN =NO
          **********************************************************************


SITE     =NCMI037  LATITUDE= 35.9824 LONGITUD= 82.1960 SAMPDATE= 9/23/75 SAMPTIME=1730     TEAMS    =802      DUMMY    =0
PH       = 7.55000 EH       = 260.000 TEMP     = 16.5300 COND     = 76.0000 O2       = 6.74000 SO4      = 8.31741 PO4      = .403383
NO3      = 2.46799 NH3      = .12435E ALK      = .460000 FILT     = 1250.00 RESIN    = 500.000 FORMNAME=          FORMAGE  =
ROCKTYPE=

         =STREAM   BASIN    =C        STRWIDTH= 10.0000 STRDEPTH= 1.50000 VELOCITY= 4.00000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=ROCK      STRBED   =ERODED   STRLEVEL=HIGH     STRVEG   =FOREST   STRRELIF=MODERATE STRPREC =RED      STRACT   =
STRACT   =         STRACT   =RESID    STRACT   =FARM     STRACT   =SEWAGE   STRSAMPW=RIGHT    STRSAMPS=RIGHT    STRCOLOR=BROWNC
STRWEATH=MODERATE  STRRAIN =YES
          **********************************************************************


SITE     =NCMI038  LATITUDE= 35.9750 LONGITUD= 82.1892 SAMPDATE= 9/23/75 SAMPTIME=1300     TEAMS    =BGL      DUMMY    =0
PH       = 7.30000 EH       = 291.000 TEMP     = 15.7600 COND     = 42.0000 O2       = 6.79000 SO4      = 5.26868 PO4      = .352193
NO3      = .301264 NH3      = .019653 ALK      = .380000 FILT     = 2000.00 RESIN    = 500.000 FORMNAME=          FORMAGE  =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 10.0000 STRDEPTH= 1.00000 VELOCITY= 4.00000 STRSHAPE=RECT     STRBOTOM=SANDGRAV
STRBOTOM=ROCK      STRBED   =ERODED   STRLEVEL=FLOOD    STRVEG   =FOREST   STRRELIF=MODERATE STRPREC =RED      STRACT   =
STRACT   =         STRACT   =RESID    STRACT   =FARM     STRACT   =SEWAGE   STRSAMPW=RIGHT    STRSAMPS=RIGHT    STRCOLOR=BROWNC
STRWEATH=LIGHT     STRRAIN =YES
          **********************************************************************


SITE     =NCMI039  LATITUDE= 35.9560 LONGITUD= 82.2127 SAMPDATE= 9/09/75 SAMPTIME=1415     TEAMS    =802      DUMMY    =0
PH       = 7.67000 EH       = 366.000 TEMP     = 18.8300 COND     = 44.0000 O2       = 5.90000 SO4      = 6.71748 PO4      = .787261
NO3      = .067339 NH3      = .019653 ALK      = .420000 FILT     = 2000.00 RESIN    = 500.000 FORMNAME=          FORMAGE  =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 4.00000 STRDEPTH= .500000 VELOCITY= .800000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET    STRBED   =DEPOSIT  STRLEVEL=NORMAL   STRVEG   =MODERATE STRRELIF=MODERATE STRPREC =NONE     STRACT   =
STRACT   =         STRACT   =         STRACT   =FARM     STRACT   =RESID    STRSAMPW=          STRSAMPS=          STRCOLOR=
STRWEATH=          STRRAIN =YES
```


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          **********************************************************************


SITE     =NCMI040  LATITUDE= 35.9564 LONGITUD= 82.1944 SAMPDATE= 9/09/75 SAMPTIME=1100     TEAMS    =802      DUMMY    =0
PH       = 7.79000 EH       = 335.000 TEMP     = 18.1200 COND     = 45.0000 O2       = 6.00000 SO4      =0.000000 PO4      = .787261
NO3      = .082092 NH3      =0.000000 ALK      = .440000 FILT     = 2000.00 RESIN    = 500.000 FORMNAME=          FORMAGE  =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 9.00000 STRDEPTH= 1.00000 VELOCITY= 1.00000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET    STRBED   =DEPOSIT  STRLEVEL=NORMAL   STRVEG   =FOREST   STRRELIF=MODERATE STRPREC =NONE     STRACT   =
STRACT   =         STRACT   =MINE     STRACT   =FARM     STRACT   =RESID    STRSAMPW=          STRSAMPS=          STRCOLOR=
STRWEATH=          STRRAIN =YES
          **********************************************************************


SITE     =NCMI041  LATITUDE= 35.9550 LONGITUD= 82.1475 SAMPDATE= 9/08/75 SAMPTIME=1900     TEAMS    =BG2      DUMMY    =0
PH       = 7.71000 EH       = 227.000 TEMP     = 18.8200 COND     = 56.0000 O2       = 5.85000 SO4      = 7.55108 PO4      = .898773
NO3      = .198342 NH3      =0.000000 ALK      = .400000 FILT     = 2000.00 RESIN    = 500.000 FORMNAME=          FORMAGE  =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 5.00000 STRDEPTH= 1.30000 VELOCITY= 1.00000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET    STRBED   =DEPOSIT  STRLEVEL=NORMAL   STRVEG   =MODERATE STRRELIF=MODERATE STRPREC =         STRACT   =
STRACT   =         STRACT   =         STRACT   =FARM     STRACT   =RESID    STRSAMPW=          STRSAMPS=          STRCOLOR=
STRWEATH=          STRRAIN =YES
          **********************************************************************


SITE     =NCMI042  LATITUDE= 35.9458 LONGITUD= 82.1441 SAMPDATE= 9/08/75 SAMPTIME=1700     TEAMS    =802      DUMMY    =0
PH       = 7.61000 EH       = 174.000 TEMP     = 20.0800 COND     = 58.0000 O2       = 5.30000 SO4      = 10.0417 PO4      = .534828
NO3      = .150454 NH3      = .C6C194 ALK      = .460000 FILT     = 2000.00 RESIN    = 500.000 FORMNAME=          FORMAGE  =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 7.00000 STRDEPTH= 1.40000 VELOCITY= 1.00000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET    STRBED   =DEPOSIT  STRLEVEL=NORMAL   STRVEG   =MODERATE STRRELIF=MODERATE STRPREC =NONE     STRACT   =
STRACT   =         STRACT   =         STRACT   =FARM     STRACT   =RESID    STRSAMPW=LEFT      STRSAMPS=COMPOSIT STRCOLOR=BROWNT
STRWEATH=          STRRAIN =YES
          **********************************************************************


SITE     =NCMI043  LATITUDE= 35.9407 LONGITUD= 82.1710 SAMPDATE= 9/08/75 SAMPTIME=1545     TEAMS    =802      DUMMY    =0
PH       = 7.54000 EH       = 181.000 TEMP     = 20.9600 COND     = 66.0000 O2       = 6.25000 SO4      = 6.26682 PO4      = .687510
NO3      = .246799 NH3      =0.000000 ALK      = .540000 FILT     = 2000.00 RESIN    = 500.000 FORMNAME=          FORMAGE  =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 2.00000 STRDEPTH= .400000 VELOCITY= 1.10000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=SANDGRAV  STRBED   =DEPOSIT  STRLEVEL=NORMAL   STRVEG   =MODERATE STRRELIF=MODERATE STRPREC =NONE     STRACT   =
STRACT   =         STRACT   =         STRACT   =FARM     STRACT   =RESID    STRSAMPW=          STRSAMPS=          STRCOLOR=
STRWEATH=          STRRAIN =NO
          **********************************************************************
```

NURE MASTER FILE EDIT

```
SITE    =NCMI044  LATITUDE= 35.9300 LONGITUD= 82.1737 SAMPDATE= 9/08/75 SAMPTIME=1300     TEAMS   =802      DUMMY   =0
PH      = 6.81000 EH      = 341.000 TEMP    = 19.9400 COND    = 54.0000 O2      = 6.76000 SO4     =0.000000 PO4     = .476246
NO3     = .167828 NH3     =0.000000 ALK     = .440000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 5.00000 STRDEPTH= .500000 VELOCITY= 1.00000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =FARM     STRACT  =RESID    STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=         STRRAIN =YES
          ********************************************************************************

SITE    =NCMI045  LATITUDE= 35.9275 LONGITUD= 82.2078 SAMPDATE= 9/09/75 SAMPTIME=830      TEAMS   =802      DUMMY   =0
PH      = 7.76000 EH      = 207.000 TEMP    = 16.6600 COND    = 56.0000 O2      = 5.66000 SO4     = 9.37821 PO4     = .597273
NO3     = .209425 NH3     =0.000000 ALK     = .560000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 9.00000 STRDEPTH= 1.00000 VELOCITY= 1.20000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =MINE     STRACT  =FARM     STRACT  =RESID    STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=CLOUDY   STRRAIN =YES
          ********************************************************************************

SITE    =NCMI046  LATITUDE= 35.9169 LONGITUD= 82.1539 SAMPDATE= 9/01/75 SAMPTIME=1300     TEAMS   =803      DUMMY   =0
PH      = 7.61000 EH      =-463.000 TEMP    = 20.1600 COND    = 28.0000 O2      = 7.37000 SO4     = 8.31741 PO4     = .117957
NO3     = .118855 NH3     = .081116 ALK     = .100000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 20.0000 STRDEPTH= 1.50000 VELOCITY= 2.50000 STRSHAPE=TRAP     STRBOTOM=NOTDET
STRBOTOM=GRAVEL   STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=LEFT     STRSAMPS=LEFT     STRCOLOR=BROWNC
STRWEATH=         STRRAIN =YES
          ********************************************************************************

SITE    =NCMI047  LATITUDE= 35.9146 LONGITUD= 82.1544 SAMPDATE= 9/01/75 SAMPTIME=1100     TEAMS   =803      DUMMY   =0
PH      = 7.35000 EH      =-461.000 TEMP    = 18.4000 COND    = 28.0000 O2      = 8.79000 SO4     =0.000000 PO4     = .157687
NO3     = .142086 NH3     = .060194 ALK     = .120000 FILT    = 2900.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 35.0000 STRDEPTH= 7.00000 VELOCITY= 1.50000 STRSHAPE=RECT     STRBOTOM=NOTDET
STRBOTOM=SANDGRAV STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=LEFT     STRSAMPS=LEFT     STRCOLOR=BROWNC
STRWEATH=         STRRAIN =YES
          ********************************************************************************

SITE    =NCMI048  LATITUDE= 35.9135 LONGITUD= 82.1531 SAMPDATE= 9/01/75 SAMPTIME=1500     TEAMS   =803      DUMMY   =0
```


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```
PH      = 7.42000 EH      =-462.000 TEMP    = 19.0800 COND    = 49.0000 O2      = 7.22000 SO4     =0.000000 PO4     = .105076
NO3     = .292540 NH3     = .124358 ALK     = .240000 FILT    = 1900.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 2.00000 STRDEPTH= .30000 VELOCITY= 1.50000 STRSHAPE=TRIANG    STRBOTOM=NOTDET
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=         STRRAIN =YES
          ********************************************************************************

SITE    =NCMI049  LATITUDE= 35.9125 LONGITUD= 82.1480 SAMPDATE= 9/01/75 SAMPTIME=1325     TEAMS   =801      DUMMY   =0
PH      = 7.76000 EH      = 187.000 TEMP    = 18.9500 COND    = 56.0000 O2      = 5.28000 SO4     = 9.71364 PO4     =-.080247
NO3     = .073113 NH3     = .081116 ALK     = .340000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 4.00000 STRDEPTH= .500000 VELOCITY= 1.00000 STRSHAPE=RECT     STRBOTOM=ROCK
STRBOTOM=SILT     STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=LEFT     STRSAMPS=LEFT     STRCOLOR=
STRWEATH=         STRRAIN =YES
          ********************************************************************************

SITE    =NCMI050  LATITUDE= 35.9119 LONGITUD= 82.1477 SAMPDATE= 9/01/75 SAMPTIME=1445     TEAMS   =801      DUMMY   =0
PH      = 7.45000 EH      = 214.000 TEMP    = 21.4200 COND    = 27.0000 O2      = 5.53000 SO4     = 4.70018 PO4     = .476246
NO3     = .142086 NH3     = .049900 ALK     = .140000 FILT    = 1500.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 35.0000 STRDEPTH= 3.00000 VELOCITY= 2.00000 STRSHAPE=RECT     STRBOTOM=NOTDET
STRBOTOM=NOTDET   STRBED  =DEPOSIT  STRLEVEL=HIGH     STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=RIGHT    STRSAMPS=         STRCOLOR=BROWNC
STRWEATH=         STRRAIN =YES
          ********************************************************************************

SITE    =NCMI051  LATITUDE= 35.9109 LONGITUD= 82.1426 SAMPDATE= 9/01/75 SAMPTIME=1600     TEAMS   =801      DUMMY   =0
PH      = 7.48000 EH      = 202.000 TEMP    = 21.8500 COND    = 51.0000 O2      = 6.80000 SO4     = 10.9890 PO4     = .641317
NO3     = 2.17312 NH3     = .214200 ALK     = .260000 FILT    = 1300.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 7.00000 STRDEPTH= 1.00000 VELOCITY= 3.00000 STRSHAPE=RECT     STRBOTOM=ROCK
STRBOTOM=SANDGRAV STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=         STRSAMPS=RIGHT    STRCOLOR=
STRWEATH=         STRRAIN =YES
          ********************************************************************************

SITE    =NCMI052  LATITUDE= 35.9098 LONGITUD= 82.1431 SAMPDATE= 9/01/75 SAMPTIME=1845     TEAMS   =801      DUMMY   =0
PH      = 7.24000 EH      = 234.000 TEMP    = 20.7200 COND    = 21.0000 O2      = 5.65000 SO4     =0.000000 PO4     = .439114
```

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```
NO3      = .142086 NH3      = .12435E ALK      = .140000 FILT     = 1800.00 RESIN    = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 30.0000 STRDEPTH= 3.00000 VELOCITY= 3.00000 STRSHAPE=RECT      STRBOTOM=SANDGRAV
STRBOTOM=ROCK      STRBED   =DEPOSIT  STRLEVEL=NORMAL   STRVEG   =FOREST   STRRELIF=MODERATE STRPREC =RED       STRACT   =
STRACT   =         STRACT   =         STRACT   =         STRACT   =CUMP     STRSAMPW=LEFT     STRSAMPS=LEFT     STRCOLOR=BROWNT
STRWEATH=          STRRAIN  =YES
          ********************************************************************

SITE     =NCMI053  LATITUDE= 35.9120 LONGITUD= 82.1346 SAMPDATE= 9/17/75 SAMPTIME=1345     TEAMS    =B02      DUMMY    =0
PH       = 7.54000 EH       = 210.000 TEMP     = 15.6100 COND     = 51.0000 O2       = 6.33000 SO4      = 7.55108 PO4      = .079826
NO3      = 2.36000 NH3      = .102498 ALK      = .320000 FILT     = 2000.00 RESIN    = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 20.0000 STRDEPTH= .800000 VELOCITY= 1.50000 STRSHAPE=RECT      STRBOTOM=
STRBOTOM=NOTDET    STRBED   =DEPOSIT  STRLEVEL=NORMAL   STRVEG   =MODERATE STRRELIF=MODERATE STRPREC =NONE      STRACT   =
STRACT   =         STRACT   =         STRACT   =FARM     STRACT   =RESID    STRSAMPW=         STRSAMPS=RIGHT    STRCOLOR=
STRWEATH=MODERATE  STRRAIN  =NO
          ********************************************************************

SITE     =NCMI054  LATITUDE= 35.9068 LONGITUD= 82.1280 SAMPDATE= 9/17/75 SAMPTIME=1300     TEAMS    =B02      DUMMY    =0
PH       = 7.52000 EH       = 311.000 TEMP     = 16.0100 COND     = 51.0000 O2       = 5.56000 SO4      = 30.8544 PO4      = .105076
NO3      = 2.46795 NH3      = .146725 ALK      = .340000 FILT     = 2000.00 RESIN    = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 15.0000 STRDEPTH= .500000 VELOCITY= 1.20000 STRSHAPE=RECT      STRBOTOM=
STRBOTOM=SAND      STRBED   =ERODED   STRLEVEL=NORMAL   STRVEG   =MODERATE STRRELIF=MODERATE STRPREC =NONE      STRACT   =
STRACT   =         STRACT   =         STRACT   =FARM     STRACT   =RESID    STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=LIGHT     STRRAIN  =YES
          ********************************************************************

SITE     =NCMI055  LATITUDE= 35.9035 LONGITUD= 82.1473 SAMPDATE= 8/29/75 SAMPTIME=1200     TEAMS    =B01      DUMMY    =0
PH       = 7.24000 EH       =-110.000 TEMP     = 18.2500 COND     = 23.0000 O2       = 7.62000 SO4      =0.000000 PO4      = .303632
NO3      = .026204 NH3      = .081116 ALK      = .140000 FILT     = 1400.00 RESIN    = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 20.0000 STRDEPTH= 15.0000 VELOCITY= 2.50000 STRSHAPE=RECT      STRBOTOM=NOTDET
STRBOTOM=NOTDET    STRBED   =DEPOSIT  STRLEVEL=NORMAL   STRVEG   =MODERATE STRRELIF=MODERATE STRPREC =RED       STRACT   =
STRACT   =         STRACT   =         STRACT   =FARM     STRACT   =RESID    STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=          STRRAIN  =YES
          ********************************************************************

SITE     =NCMI056  LATITUDE= 35.9015 LONGITUD= 82.1479 SAMPDATE= 9/01/75 SAMPTIME=1100     TEAMS    =B02      DUMMY    =0
PH       = 7.41000 EH       = 268.000 TEMP     = 16.7700 COND     = 47.0000 O2       = 5.18000 SO4      = 7.55108 PO4      = .303632
NO3      = .070206 NH3      =0.000000 ALK      = .320000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE =
```


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```
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 3.00000 STRDEPTH= .400000 VELOCITY= 1.30000 STRSHAPE=RECT      STRBOTOM=
STRBOTOM=SANDGRAV  STRBED   =DEPOSIT  STRLEVEL=NORMAL   STRVEG   =OPEN     STRRELIF=MODERATE STRPREC =NONE      STRACT   =
STRACT   =         STRACT   =RESID    STRACT   =FARM     STRACT   =MINE     STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=          STRRAIN  =YES
          ********************************************************************

SITE     =NCMI057  LATITUDE= 35.9009 LONGITUD= 82.1457 SAMPDATE= 9/01/75 SAMPTIME=1245     TEAMS    =B02      DUMMY    =0
PH       = 7.21000 EH       = 261.000 TEMP     = 17.4500 COND     = 43.0000 O2       = 5.58000 SO4      = 12.1868 PO4      = .185132
NO3      = .030517 NH3      = .346581 ALK      = .300000 FILT     = 2000.00 RESIN    = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 3.00000 STRDEPTH= .400000 VELOCITY= 1.10000 STRSHAPE=RECT      STRBOTOM=
STRBOTOM=SANDGRAV  STRBED   =DEPOSIT  STRLEVEL=NORMAL   STRVEG   =SPARSE   STRRELIF=MODERATE STRPREC =RED       STRACT   =
STRACT   =         STRACT   =RESID    STRACT   =FARM     STRACT   =MINE     STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=          STRRAIN  =YES
          ********************************************************************

SITE     =NCMI058  LATITUDE= 35.8966 LONGITUD= 82.1440 SAMPDATE= 9/01/75 SAMPTIME=1345     TEAMS    =B02      DUMMY    =0
PH       = 7.58000 EH       = 256.000 TEMP     = 19.9200 COND     = 34.0000 O2       = 5.35000 SO4      = 5.78668 PO4      = .439114
NO3      = .056256 NH3      = .039712 ALK      = .320000 FILT     = 2000.00 RESIN    = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 6.00000 STRDEPTH= .600000 VELOCITY= 1.00000 STRSHAPE=RECT      STRBOTOM=SANDGRAV
STRBOTOM=ROCK      STRBED   =DEPOSIT  STRLEVEL=NORMAL   STRVEG   =MODERATE STRRELIF=MODERATE STRPREC =NONE      STRACT   =
STRACT   =         STRACT   =FARM     STRACT   =RESID    STRACT   =MINE     STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=          STRRAIN  =YES
          ********************************************************************

SITE     =NCMI059  LATITUDE= 35.8960 LONGITUD= 82.1452 SAMPDATE= 9/01/75 SAMPTIME=1545     TEAMS    =B02      DUMMY    =0
PH       = 7.31000 EH       = 294.000 TEMP     = 20.5800 COND     = 19.0000 O2       = 6.26000 SO4      =0.000000 PO4      = .476246
NO3      = .094711 NH3      = .124358 ALK      = .160000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 40.0000 STRDEPTH= 2.50000 VELOCITY= 4.00000 STRSHAPE=RECT      STRBOTOM=ROCK
STRBOTOM=SAND      STRBED   =DEPOSIT  STRLEVEL=NORMAL   STRVEG   =MODERATE STRRELIF=MODERATE STRPREC =NONE      STRACT   =
STRACT   =         STRACT   =MINE     STRACT   =FARM     STRACT   =RESID    STRSAMPW=         STRSAMPS=LEFT     STRCOLOR=BROWNC
STRWEATH=          STRRAIN  =YES
          ********************************************************************

SITE     =NCMI060  LATITUDE= 35.8936 LONGITUD= 82.1500 SAMPDATE= 8/30/75 SAMPTIME=930      TEAMS    =B01      DUMMY    =0
PH       = 6.52000 EH       = 128.000 TEMP     = 16.4500 COND     = 28.0000 O2       = 5.80000 SO4      = 10.3632 PO4      = .514894
NO3      =0.000000 NH3      = .465042 ALK      = .240000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=
```

NURE MASTER FILE EDIT

```
        =STREAM   BASIN   =0        STRWIDTH= 4.00000 STRDEPTH= .600000 VELOCITY= 2.00000 STRSHAPE=RECT     STRBOTOM=ROCK
STRBOTOM=SILT     STRBED  =DEPOSIT  STRLEVEL=NORMAL  STRVEG  =MODERATE STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =MINE     STRACT  =RESID   STRACT  =FARM     STRSAMPW=LEFT     STRSAMPS=LEFT     STRCOLOR=
STRWEATH=         STRRAIN =NO
          **********************************************************************

SITE    =NCMI061  LATITUDE= 35.8926 LONGITUD= 82.1500 SAMPDATE= 8/30/75 SAMPTIME=1110     TEAMS   =B01      DUMMY   =0
PH      = 7.21000 EH      = 196.000 TEMP    = 17.8800 COND    = 20.0000 O2      = 6.13000 SO4     = 8.31741 PO4     = .335727
NO3     = .035740 NH3     = .039712 ALK     = .100000 FILT    = 2004.00 RESIN   = 1000.00 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 15.0000 STRDEPTH= 1.20000 VELOCITY= 1.20000 STRSHAPE=RECT     STRBOTOM=NOTDET
STRBOTOM=NOTDET   STRBED  =DEPOSIT  STRLEVEL=NORMAL  STRVEG  =MODERATE STRRELIF=GENTLE   STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =FARM     STRACT  =RESIC    STRSAMPW=LEFT     STRSAMPS=         STRCOLOR=
STRWEATH=         STRRAIN =YES
          **********************************************************************

SITE    =NCMI062  LATITUDE= 35.8857 LONGITUD= 82.1467 SAMPDATE= 9/02/75 SAMPTIME=1715     TEAMS   =B01      DUMMY   =0
PH      =0.000000 EH      =0.000000 TEMP    =C.CC0000 COND    =0.000000 O2      =0.000000 SO4     =0.000000 PO4     =0.000000
NO3     =0.000000 NH3     =0.000000 ALK     =0.000000 FILT    =0.000000 RESIN   =0.000000 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 4.00000 STRDEPTH=C.CCC000 VELOCITY=0.000000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=SAND     STRBED  =DEPOSIT  STRLEVEL=DRY     STRVEG  =MODERATE STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =        STRACT  =FARM     STRSAMPW=         STRSAMPS=RIGHT    STRCOLOR=
STRWEATH=         STRRAIN =NO
          **********************************************************************

SITE    =NCMI063  LATITUDE= 35.8856 LONGITUD= 82.1473 SAMPDATE= 8/30/75 SAMPTIME=1510     TEAMS   =B01      DUMMY   =0
PH      = 7.37000 EH      = 217.000 TEMP    = 20.6200 COND    = 22.0000 O2      = 7.14000 SO4     = 9.71364 PO4     = .242527
NO3     = .126310 NH3     = .C60194 ALK     = .120000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 15.0000 STRDEPTH= 1.50000 VELOCITY= 1.00000 STRSHAPE=RECT     STRBOTOM=NOTDET
STRBOTOM=NOTDET   STRBED  =DEPOSIT  STRLEVEL=NORMAL  STRVEG  =MODERATE STRRELIF=GENTLE   STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =        STRACT  =FARM     STRSAMPW=LEFT     STRSAMPS=         STRCOLOR=
STRWEATH=         STRRAIN =YES
          **********************************************************************

SITE    =NCMI064  LATITUDE= 35.8778 LONGITUD= 82.1462 SAMPDATE= 8/30/75 SAMPTIME=1650     TEAMS   =B01      DUMMY   =0
PH      = 6.82000 EH      = 237.000 TEMP    = 17.4500 COND    = 12.0000 O2      = 4.64000 SO4     =0.000000 PO4     =-.180000
NO3     = .040680 NH3     = .081116 ALK     = .060000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 3.00000 STRDEPTH= .600000 VELOCITY= 1.50000 STRSHAPE=RECT     STRBOTOM=SANDGRAV
```


NURE MASTER FILE EDIT

```
STRBOTOM=ROCK     STRBED  =DEPOSIT  STRLEVEL=NORMAL  STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =        STRACT  =         STRSAMPW=LEFT     STRSAMPS=LEFT     STRCOLOR=
STRWEATH=CLOUCY   STRRAIN =NO
          **********************************************************************

SITE    =NCMI065  LATITUDE= 35.8768 LONGITUD= 82.1452 SAMPDATE= 8/30/75 SAMPTIME=1730     TEAMS   =B01      DUMMY   =0
PH      = 6.59000 EH      = 226.000 TEMP    = 17.3200 COND    = 8.00000 O2      = 2.99000 SO4     =0.000000 PO4     =-.058972
NO3     = .050931 NH3     = .169614 ALK     = .080000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 2.00000 STRDEPTH= .200000 VELOCITY= .500000 STRSHAPE=RECT     STRBOTOM=NOTDET
STRBOTOM=NOTDET   STRBED  =DEPOSIT  STRLEVEL=NORMAL  STRVEG  =MODERATE STRRELIF=GENTLE   STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =        STRACT  =         STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=CLOUDY   STRRAIN =YES
          **********************************************************************

SITE    =NCMI066  LATITUDE= 35.8503 LONGITUD= 82.1344 SAMPDATE= 9/02/75 SAMPTIME=1130     TEAMS   =B02      DUMMY   =0
PH      = 7.27000 EH      = 168.000 TEMP    = 15.9600 COND    = 27.0000 O2      = 6.20000 SO4     = 3.30650 PO4     = .272586
NO3     = .134047 NH3     =0.CCCCCC ALK     = .280000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 4.00000 STRDEPTH= .4C0000 VELOCITY= 1.00000 STRSHAPE=RECT     STRBOTOM=NOTDET
STRBOTOM=SANDGRAV STRBED  =DEPOSIT  STRLEVEL=NORMAL  STRVEG  =MODERATE STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =DUMP    STRAGI  =MINE     STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=         STRRAIN =YES
          **********************************************************************

SITE    =NCMI067  LATITUDE= 35.8907 LONGITUD= 82.1856 SAMPDATE= 9/02/75 SAMPTIME=1800     TEAMS   =B01      DUMMY   =0
PH      = 7.20000 EH      = 474.000 TEMP    = 17.9700 COND    = 28.0000 O2      = 6.48000 SO4     = 13.0504 PO4     = .199157
NO3     = .118855 NH3     = .060194 ALK     = .240000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 3.CC000 STRDEPTH= .300000 VELOCITY= 2.00000 STRSHAPE=RECT     STRBOTOM=NOTDET
STRBOTOM=NOTDET   STRBED  =DEPOSIT  STRLEVEL=NORMAL  STRVEG  =MODERATE STRRELIF=GENTLE   STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =FARM    STRACT  =RESIC    STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=         STRRAIN =NO
          **********************************************************************

SITE    =NCMI068  LATITUDE= 35.9061 LONGITUD= 82.1875 SAMPDATE= 8/31/75 SAMPTIME=1320     TEAMS   =B01      DUMMY   =0
PH      = 7.60000 EH      = 178.000 TEMP    = 18.1100 COND    = 46.0000 O2      = 5.03000 SO4     = 6.71748 PO4     = .227850
NO3     = .065175 NH3     = .319576 ALK     = .200000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 5.00000 STRDEPTH= .800000 VELOCITY= 1.CCC00 STRSHAPE=RECT     STRBOTOM=NOTDET
STRBOTOM=SANDGRAV STRBED  =DEPOSIT  STRLEVEL=NORMAL  STRVEG  =MODERATE STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
```

NURE MASTER FILE EDIT

```
STRACT =          STRACT =          STRACT =RESID     STRACT =FARM      STRSAMPW=RIGHT    STRSAMPS=RIGHT    STRCOLOR=BROWNT
STRWEATH=LIGHT    STRRAIN =NO
          ********************************************************************


SITE     =NCM1069  LATITUDE= 35.9086 LONGITUD= 82.1897 SAMPDATE= 8/31/75 SAMPTIME=1630     TEAMS    =B01      DUMMY    =0
PH       = 7.63000 EH       = 218.000 TEMP     = 19.8700 COND     = 55.0000 O2       = 5.15000 SO4      = 2.33219 PO4      = .457497
NO3      = .154770 NH3      = .229316 ALK      = .320000 FILT     = 2000.00 RESIN    = 500.000 FORMNAME=          FORMAGE  =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 3.00000 STRDEPTH= .300000 VELOCITY= 1.00000 STRSHAPE=RECT     STRBOTOM=NOTDET
STRBOTOM=NOTDET    STRBED   =DEPOSIT  STRLEVEL=NORMAL   STRVEG   =MODERATE STRRELIF=GENTLE   STRPREC =RED      STRACT   =
STRACT   =         STRACT   =DUMP     STRACT   =SEWAGE  STRACT   =RESID    STRSAMPW=RIGHT    STRSAMPS=         STRCOLOR=
STRWEATH=HEAVY     STRRAIN =YES
          ********************************************************************


SITE     =NCM1070  LATITUDE= 35.9046 LONGITUD= 82.2153 SAMPDATE= 9/01/75 SAMPTIME=1640     TEAMS    =B03      DUMMY    =0
PH       = 7.59000 EH       =-468.000 TEMP     = 22.9800 COND     = 35.0000 O2       = 6.94000 SO4      =0.000000 PO4      = .019503
NO3      = .038195 NH3      = .060194 ALK      = .180000 FILT     = 2000.00 RESIN    = 500.000 FORMNAME=          FORMAGE  =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 12.0000 STRDEPTH= .500000 VELOCITY= 2.50000 STRSHAPE=RECT     STRBOTOM=NOTDET
STRBOTOM=NOTDET    STRBED   =DEPOSIT  STRLEVEL=NORMAL   STRVEG   =MODERATE STRRELIF=MODERATE STRPREC =NONE     STRACT   =
STRACT   =         STRACT   =         STRACT   =FARM     STRACT   =RESID    STRSAMPW=RIGHT    STRSAMPS=RIGHT    STRCOLOR=
STRWEATH=          STRRAIN =YES
          ********************************************************************


SITE     =NCM1071  LATITUDE= 35.8808 LONGITUD= 82.2224 SAMPDATE= 9/10/75 SAMPTIME=1130     TEAMS    =B03      DUMMY    =0
PH       = 6.85000 EH       = 220.000 TEMP     = 17.9000 COND     = 18.0000 O2       = 10.0200 SO4      = 6.71748 PO4      =-.026132
NO3      = .030917 NH3      = .070598 ALK      = .140000 FILT     = 2000.00 RESIN    = 500.000 FORMNAME=          FORMAGE  =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 6.00000 STRDEPTH= .400000 VELOCITY= 1.00000 STRSHAPE=RECT     STRBOTOM=NOTDET
STRBOTOM=NOTDET    STRBED   =DEPOSIT  STRLEVEL=NORMAL   STRVEG   =MODERATE STRRELIF=MODERATE STRPREC =RED      STRACT   =
STRACT   =         STRACT   =         STRACT   =FARM     STRACT   =RESID    STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=CLOUDY    STRRAIN =NO
          ********************************************************************


SITE     =NCM1072  LATITUDE= 35.9096 LONGITUD= 82.2217 SAMPDATE= 9/10/75 SAMPTIME=1515     TEAMS    =B03      DUMMY    =0
PH       = 7.37000 EH       = 165.000 TEMP     = 19.2500 COND     = 39.0000 O2       = 10.1700 SO4      = 13.3333 PO4      =-.014928
NO3      = .056256 NH3      = .060194 ALK      = .280000 FILT     = 2000.00 RESIN    = 500.000 FORMNAME=          FORMAGE  =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 4.00000 STRDEPTH= .300000 VELOCITY= 1.00000 STRSHAPE=RECT     STRBOTOM=NOTDET
STRBOTOM=NOTDET    STRBED   =DEPOSIT  STRLEVEL=NORMAL   STRVEG   =MODERATE STRRELIF=MODERATE STRPREC =RED      STRACT   =
STRACT   =         STRACT   =         STRACT   =FARM     STRACT   =RESID    STRSAMPW=         STRSAMPS=         STRCOLOR=
```


NURE MASTER FILE EDIT

```
STRWEATH=CLOUDY    STRRAIN =NO
          ********************************************************************


SITE     =NCM1073  LATITUDE= 35.9141 LONGITUD= 82.2386 SAMPDATE= 8/31/75 SAMPTIME=1615     TEAMS    =B03      DUMMY    =0
PH       = 7.68000 EH       =-457.000 TEMP     = 19.4600 COND     = 50.0000 O2       = 7.07000 SO4      = 8.31741 PO4      = .959875
NO3      =0.000000 NH3      =0.000000 ALK      = .340000 FILT     = 1500.00 RESIN    = 500.000 FORMNAME=          FORMAGE  =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 3.00000 STRDEPTH= .400000 VELOCITY= 1.50000 STRSHAPE=RECT     STRBOTOM=NOTDET
STRBOTOM=NOTDET    STRBED   =DEPOSIT  STRLEVEL=NORMAL   STRVEG   =SPARSE   STRRELIF=MODERATE STRPREC =NONE     STRACT   =
STRACT   =         STRACT   =SEWAGE   STRACT   =FARM     STRACT   =RESID    STRSAMPW=         STRSAMPS=         STRCOLOR=BROWNC
STRWEATH=CLOUDY    STRRAIN =YES
          ********************************************************************


SITE     =NCM1074  LATITUDE= 35.9164 LONGITUD= 82.2486 SAMPDATE= 8/31/75 SAMPTIME=1230     TEAMS    =B03      DUMMY    =0
PH       = 7.65000 EH       =-457.000 TEMP     = 20.4800 COND     = 57.0000 O2       = 7.12000 SO4      = 7.55108 PO4      = .514894
NO3      = .253748 NH3      = .158102 ALK      = .320000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE  =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 4.00000 STRDEPTH= .700000 VELOCITY= 2.50000 STRSHAPE=RECT     STRBOTOM=NOTDET
STRBOTOM=NOTDET    STRBED   =DEPOSIT  STRLEVEL=NORMAL   STRVEG   =MODERATE STRRELIF=MODERATE STRPREC =RED      STRACT   =
STRACT   =         STRACT   =FARM     STRACT   =RESID    STRACT   =SEWAGE   STRSAMPW=         STRSAMPS=         STRCOLOR=BROWNC
STRWEATH=CLOUDY    STRRAIN =NO
          ********************************************************************


SITE     =NCM1101  LATITUDE= 35.9974 LONGITUD= 82.2498 SAMPDATE= 9/16/75 SAMPTIME=1500     TEAMS    =B01      DUMMY    =0
PH       = 6.80000 EH       = 296.000 TEMP     = 17.6600 COND     = 118.000 O2       = 6.95000 SO4      = 7.55108 PO4      = .157687
NO3      = 2.46799 NH3      =0.000000 ALK      = .700000 FILT     = 2100.00 RESIN    = 500.000 FORMNAME=          FORMAGE  =
ROCKTYPE=

         =GROUND   WELCR    =SPRING   WELDEPTH=0         WELSCREN=0        WELAGE   =0        WELAGEP  =10       WELTYPE  =
WELCASE  =         WELCLAS  =PRIVATE  WELPOINT=         WELPIPE  =PLASTIC  WELPIPE  =        WELTREAT=          WELTREAT=
WELTREAT=          WELUSE   =HUMAAN   WELAPPER=CLEAR    WELDOOR  =NONE     WELACT   =        WELACT   =         WELACT   =
WELACT   =         WELACT   =FARM     WELFREQ  =CONSTANT
          ********************************************************************


SITE     =NCM1102  LATITUDE= 35.9889 LONGITUD= 82.2500 SAMPDATE= 9/16/75 SAMPTIME=1310     TEAMS    =B01      DUMMY    =0
PH       = 6.49000 EH       = 227.000 TEMP     = 20.5800 COND     = 91.0000 O2       = 4.29000 SO4      = 4.70018 PO4      = .213394
NO3      = .215200 NH3      =0.000000 ALK      = .500000 FILT     = 2000.00 RESIN    = 500.000 FORMNAME=          FORMAGE  =
ROCKTYPE=

         =GROUND   WELCR    =SPRING   WELDEPTH=0         WELSCREN=0        WELAGE   =0        WELAGEP  =10       WELTYPE  =
WELCASE  =         WELCLAS  =PRIVATE  WELPOINT=         WELPIPE  =PLASTIC  WELPIPE  =        WELTREAT=          WELTREAT=
WELTREAT=NONE      WELUSE   =HUMAAN   WELAPPER=CLEAR    WELDOOR  =NONE     WELACT   =        WELACT   =         WELACT   =
WELACT   =         WELACT   =NONE     WELFREQ  =CONSTANT
```

NURE MASTER FILE EDIT

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**********************************************************************

SITE    =NCMI103  LATITUDE= 35.9989 LONGITUD= 82.2330 SAMPDATE= 9/12/75 SAMPTIME=1200     TEAMS   =802      DUMMY   =0
PH      = 7.37000 EH      = 296.000 TEMP    = 20.2700 COND    = 109.000 O2      = 6.90000 SO4     = 8.68129 PO4     = .272586
NO3     = .070266 NH3     =0.000000 ALK     = .720000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELDR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =
WELCASE =         WELCLAS =         WELPOINT=OTHER    WELPIPE =         WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=         WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =MINE
WELACT  =FARM     WELACT  =RESID    WELFREQ =CONSTANT
**********************************************************************

SITE    =NCMI104  LATITUDE= 35.9954 LONGITUD= 82.2344 SAMPDATE= 9/13/75 SAMPTIME=830      TEAMS   =802      DUMMY   =0
PH      = 6.31000 EH      = 422.000 TEMP    = 13.8400 COND    = 98.0000 O2      = 2.71000 SO4     = 5.26868 PO4     =-.080247
NO3     = .126310 NH3     =0.000000 ALK     = 1.06000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELDR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =2        WELTYPE =
WELCASE =         WELCLAS =PRIVATE  WELPOINT=OTHER    WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =MINE
WELACT  =FARM     WELACT  =RESID    WELFREQ =CONSTANT
**********************************************************************

SITE    =NCMI105  LATITUDE= 35.9906 LONGITUD= 82.2329 SAMPDATE= 9/13/75 SAMPTIME=1030     TEAMS   =802      DUMMY   =0
PH      = 6.56010 EH      = 207.000 TEMP    = 14.4300 COND    = 51.0000 O2      = 1.82000 SO4     = 6.71748 PO4     = .157687
NO3     = .040680 NH3     = .019653 ALK     = .480000 FILT    = 2100.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELDR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =60       WELTYPE =
WELCASE =         WELCLAS =PRIVATE  WELPOINT=OTHER    WELPIPE =GALV     WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =OTHER    WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =MINE
WELACT  =FARM     WELACT  =RESID    WELFREQ =DAILY
**********************************************************************

SITE    =NCMI106  LATITUDE= 35.9912 LONGITUD= 82.2332 SAMPDATE= 9/12/75 SAMPTIME=1115     TEAMS   =802      DUMMY   =0
PH      = 6.52000 EH      = 231.000 TEMP    = 19.2700 COND    = 51.0000 O2      = 3.26000 SO4     =0.000000 PO4     = .079826
NO3     = .126210 NH3     = .029631 ALK     = .400000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELDR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =15       WELTYPE =
WELCASE =         WELCLAS =PRIVATE  WELPOINT=OTHER    WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=         WELODOR =         WELACT  =         WELACT  =         WELACT  =MINE
WELACT  =FARM     WELACT  =RESID    WELFREQ =CONSTANT
**********************************************************************
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NURE MASTER FILE EDIT

```
SITE    =NCMI108  LATITUDE= 35.9860 LONGITUD= 82.2275 SAMPDATE= 9/13/75 SAMPTIME=1545     TEAMS   =802      DUMMY   =0
PH      = 6.61000 EH      = 291.000 TEMP    = 18.6300 COND    = 47.0000 O2      = 6.72000 SO4     = 6.26682 PO4     = .171309
NO3     = .040660 NH3     = .019653 ALK     = .480000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELDR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =25       WELTYPE =
WELCASE =         WELCLAS =PRIVATE  WELPOINT=OTHER    WELPIPE =GALV     WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =MINE
WELACT  =FARM     WELACT  =RESID    WELFREQ =CONSTANT
**********************************************************************

SITE    =NCMI109  LATITUDE= 35.9820 LONGITUD= 82.2292 SAMPDATE= 9/13/75 SAMPTIME=1730     TEAMS   =802      DUMMY   =0
PH      = 6.62000 EH      = 205.000 TEMP    = 17.3200 COND    = 87.0000 O2      = 9.08000 SO4     = 11.5957 PO4     = .171309
NO3     = .091483 NH3     = .039712 ALK     = .960000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELDR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =2        WELTYPE =
WELCASE =         WELCLAS =PRIVATE  WELPOINT=OTHER    WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =MINE
WELACT  =FARM     WELACT  =RESID    WELFREQ =CONSTANT
**********************************************************************

SITE    =NCMI110  LATITUDE= 35.9788 LONGITUD= 82.2317 SAMPDATE= 9/15/75 SAMPTIME=1500     TEAMS   =802      DUMMY   =0
PH      = 6.30000 EH      = 356.000 TEMP    = 16.4700 COND    = 23.0000 O2      = 2.44000 SO4     = 4.06002 PO4     = .664132
NO3     = .064511 NH3     = .009777 ALK     = 1.44000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELDR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =
WELCASE =         WELCLAS =PRIVATE  WELPOINT=         WELPIPE =         WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =RESID    WELFREQ =CONSTANT
**********************************************************************

SITE    =NCMI111  LATITUDE= 35.9780 LONGITUD= 82.2362 SAMPDATE= 9/15/75 SAMPTIME=1745     TEAMS   =802      DUMMY   =0
PH      = 7.38000 EH      = 311.000 TEMP    = 10.9200 COND    = 39.0000 O2      = 2.58000 SO4     = 8.68129 PO4     = .213394
NO3     = .045741 NH3     = .039712 ALK     = .300000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELDR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =5        WELTYPE =
WELCASE =         WELCLAS =UNKNOWN  WELPOINT=WELL     WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =OTHER    WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =MINE     WELACT  =FARM     WELFREQ =MONTHLY
**********************************************************************

SITE    =NCMI114  LATITUDE= 35.9775 LONGITUD= 82.2408 SAMPDATE= 9/14/75 SAMPTIME=1530     TEAMS   =802      DUMMY   =0
```

NURE MASTER FILE EDIT

```
PH      = 6.34000 EH      = 195.000 TEMP    = 12.9200 COND    = 84.0000 O2      = 4.58000 SO4     = 6.26682 PO4     = .185132
NO3     = .198342 NH3     = .102498 ALK     = .780000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =
WELCASE =         WELCLAS =OTHER    WELPOINT=WELL     WELPIPE =         WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =OTHER    WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =MINE     WELFREQ =
          **********************************************************************

SITE    =NCMI118  LATITUDE= 35.9766 LONGITUD= 82.2292 SAMPDATE= 9/15/75 SAMPTIME=1330     TEAMS   =802      DUMMY   =0
PH      = 6.54000 EH      = 597.000 TEMP    = 19.0100 COND    = 123.000 O2      = 2.34000 SO4     = 6.71748 PO4     = .199157
NO3     = .094711 NH3     =0.000000 ALK     = .920000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =1        WELTYPE =
WELCASE =         WELCLAS =PRIVATE  WELPOINT=OTHER    WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =RESID    WELFREQ =CONSTANT
          **********************************************************************

SITE    =NCMI119  LATITUDE= 35.9747 LONGITUD= 82.2310 SAMPDATE= 9/15/75 SAMPTIME=1230     TEAMS   =802      DUMMY   =0
PH      = 6.39000 EH      = 471.000 TEMP    = 16.8300 COND    = 44.0000 O2      = 1.88000 SO4     = 6.26682 PO4     = .079826
NO3     = .097991 NH3     = .029631 ALK     = .300000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =4        WELTYPE =
WELCASE =         WELCLAS =PRIVATE  WELPOINT=OTHER    WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =MINE
WELACT  =FARM     WELACT  =RESID    WELFREQ =CONSTANT
          **********************************************************************

SITE    =NCMI120  LATITUDE= 35.9717 LONGITUD= 82.2332 SAMPDATE= 9/15/75 SAMPTIME=1900     TEAMS   =802      DUMMY   =0
PH      = 6.49000 EH      = 324.000 TEMP    = 14.3000 COND    = 36.0000 O2      = 4.27000 SO4     = 6.71748 PO4     = .055233
NO3     = .082092 NH3     =0.000000 ALK     = .320000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =3        WELTYPE =
WELCASE =         WELCLAS =PRIVATE  WELPOINT=OTHER    WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =RESID    WELFREQ =CONSTANT
          **********************************************************************

SITE    =NCMI121  LATITUDE= 35.9728 LONGITUD= 82.2217 SAMPDATE= 9/15/75 SAMPTIME=1000     TEAMS   =802      DUMMY   =0
PH      = 6.19000 EH      = 350.000 TEMP    = 10.4500 COND    = 18.0000 O2      = 3.25000 SO4     =0.000000 PO4     =-.037205
```


NURE MASTER FILE EDIT

```
NO3     = .067339 NH3     = .009777 ALK     = .160000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =2        WELTYPE =
WELCASE =         WELCLAS =PRIVATE  WELPOINT=WELL     WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =MINE
WELACT  =FARM     WELACT  =RESID    WELFREQ =CONSTANT
          **********************************************************************

SITE    =NCMI125  LATITUDE= 35.9983 LONGITUD= 82.2221 SAMPDATE= 9/12/75 SAMPTIME=1015     TEAMS   =802      DUMMY   =0
PH      = 6.87000 EH      = 186.000 TEMP    = 20.2000 COND    = 80.0000 O2      = 2.23000 SO4     = 10.3632 PO4     = .199157
NO3     = .233565 NH3     = .009777 ALK     = .460000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =10       WELTYPE =
WELCASE =         WELCLAS =PRIVATE  WELPOINT=OTHER    WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =RESID    WELACT  =FARM     WELFREQ =CONSTANT
          **********************************************************************

SITE    =NCMI126  LATITUDE= 35.9986 LONGITUD= 82.2214 SAMPDATE= 9/11/75 SAMPTIME=1645     TEAMS   =802      DUMMY   =0
PH      = 7.37000 EH      = 266.000 TEMP    = 15.8900 COND    = 82.0000 O2      = 3.12000 SO4     = 10.0417 PO4     = .213394
NO3     = .173003 NH3     =0.000000 ALK     = .600000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =15       WELTYPE =
WELCASE =         WELCLAS =PRIVATE  WELPOINT=OTHER    WELPIPE =GALV     WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =FARM     WELACT  =RESID    WELFREQ =CONSTANT
          **********************************************************************

SITE    =NCMI129  LATITUDE=0.000000 LONGITUD=0.000000 SAMPDATE= 9/11/75 SAMPTIME=1415     TEAMS   =803      DUMMY   =0
PH      = 5.90000 EH      = 265.000 TEMP    = 19.2500 COND    = 26.0000 O2      = 5.30000 SO4     = 5.26868 PO4     =-.040151
NO3     = .067339 NH3     = .009777 ALK     = .160000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=10       WELSCREN=0        WELAGE  =6        WELAGEP =6        WELTYPE =CUG
WELCASE =NO       WELCLAS =         WELPOINT=         WELPIPE =OTHER    WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=OTHER    WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =RESID    WELFREQ =CONSTANT
          **********************************************************************

SITE    =NCMI132  LATITUDE= 35.9841 LONGITUD= 82.2171 SAMPDATE= 9/10/75 SAMPTIME=1600     TEAMS   =802      DUMMY   =0
PH      = 6.72000 EH      = 266.000 TEMP    = 15.4300 COND    = 50.0000 O2      = 3.02000 SO4     = 4.06002 PO4     = 1.62520
NO3     = .085175 NH3     =0.000000 ALK     = .460000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
```

NURE MASTER FILE EDIT

```
ROCKTYPE=

        =GROUND   WELOR   =SPRING   WELDEPTH=0          WELSCREN=0          WELAGE  =0          WELAGEP =10         WELTYPE =
*ELCASE =         WELCLAS =PRIVATE  WELPOINT=OTHER      WELPIPE =PLASTIC    WELPIPE =           WELTREAT=           WELTREAT=
*ELTREAT=NONE     WELLSE  =HUMAAN   WELAPPER=CLEAR      WELODOR =NONE       WELACT  =           WELACT  =           WELACT  =
WELACT  =FARM     WELACT  =RESID    WELFREQ =CONSTANT
          **********************************************************************

SITE    =NCMI133  LATITUDE= 35.9652 LONGITUD= 82.2181 SAMPDATE= 9/11/75 SAMPTIME=930       TEAMS   =802       DUMMY   =0
PH      = 6.54000 EH      = 328.000 TEMP    = 11.9400 COND    = 50.0000 O2      = 3.68000 SO4     = 4.06002 PO4     = .157687
NO3     = .019332 NH3     =0.000000 ALK     = .640000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=           FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =SPRING   WELDEPTH=0          WELSCREN=0          WELAGE  =0          WELAGEP =0          WELTYPE =
*ELCASE =         WELCLAS =         WELPOINT=WELL       WELPIPE =           WELPIPE =           WELTREAT=           WELTREAT=
*ELTREAT=         WELLSE  =         WELAPPER=CLEAR      WELODOR =NONE       WELACT  =           WELACT  =           WELACT  =
WELACT  =FARM     WELACT  =RESID    WELFREQ =
          **********************************************************************

SITE    =NCMI134  LATITUDE= 35.9861 LONGITUD= 82.2135 SAMPDATE= 9/10/75 SAMPTIME=1400      TEAMS   =802       DUMMY   =0
PH      = 8.33000 EH      = 198.000 TEMP    = 20.1400 COND    = 107.000 O2      = .78000  SO4     = 9.03446 PO4     = .439114
NO3     = .138027 NH3     =0.000000 ALK     = .760000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=           FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=440        WELSCREN=75         WELAGE  =3          WELAGEP =3          WELTYPE =DRILLED
*ELCASE =YES      WELCLAS =PRIVATE  WELPOINT=OTHER      WELPIPE =GALV       WELPIPE =           WELTREAT=           WELTREAT=
*ELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR      WELODOR =NONE       WELACT  =           WELACT  =           WELACT  =
WELACT  =RESID    WELACT  =FARM     WELFREC =CONSTANT
          **********************************************************************

SITE    =NCMI136  LATITUDE= 35.9718 LONGITUD= 82.1961 SAMPDATE= 9/09/75 SAMPTIME=1645      TEAMS   =802       DUMMY   =0
PH      = 5.80000 EH      = 430.000 TEMP    = 14.2000 COND    = 46.0000 O2      = 2.52000 SO4     = 7.55108 PO4     = 1.02520
NO3     = .545113 NH3     = .019653 ALK     = .200000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=           FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =SPRING   WELDEPTH=0          WELSCREN=0          WELAGE  =0          WELAGEP =0          WELTYPE =
*ELCASE =         WELCLAS =PRIVATE  WELPOINT=WELL       WELPIPE =           WELPIPE =           WELTREAT=           WELTREAT=
*ELTREAT=NONE     WELLSE  =HUMAAN   WELAPPER=CLEAR      WELODOR =NONE       WELACT  =           WELACT  =           WELACT  =
*ELACT  =FARM     WELACT  =RESID    WELFREQ =WEEKLY
          **********************************************************************

SITE    =NCMI137  LATITUDE= 35.9902 LONGITUD= 82.1633 SAMPDATE= 9/18/75 SAMPTIME=1400      TEAMS   =803       DUMMY   =0
PH      = 5.70000 EH      = 307.000 TEMP    = 16.4000 COND    = 36.0000 O2      = 7.80000 SO4     =0.000000 PO4     =-.037205
NO3     = .067339 NH3     = .049900 ALK     = .300000 FILT    = 1800.00 RESIN   = 500.000 FORMNAME=           FORMAGE =
ROCKTYPE=
```


NURE MASTER FILE EDIT

```
        =GROUND   WELOR   =SPRING   WELDEPTH=0          WELSCREN=0          WELAGE  =0          WELAGEP =0          WELTYPE =
*ELCASE =         WELCLAS =         WELPOINT=           WELPIPE =           WELPIPE =           WELTREAT=           WELTREAT=
*ELTREAT=         WELUSE  =HUMAAN   WELAPPER=CLEAR      WELODOR =NONE       WELACT  =           WELACT  =           WELACT  =
WELACT  =         WELACT  =RESID    WELFREQ =CONSTANT
          **********************************************************************

SITE    =NCMI139  LATITUDE= 35.9753 LONGITUD= 82.1882 SAMPDATE= 9/23/75 SAMPTIME=1245      TEAMS   =801       DUMMY   =0
PH      = 6.17000 EH      = 292.000 TEMP    = 14.4800 COND    = 37.0000 O2      = 6.03000 SO4     = 9.03446 PO4     = .007886
NO3     = 2.26231 NH3     =0.000000 ALK     = .260000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=           FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =SPRING   WELDEPTH=0          WELSCREN=0          WELAGE  =0          WELAGEP =25         WELTYPE =
*ELCASE =         WELCLAS =PRIVATE  WELPOINT=AFTERSTO   WELPIPE =GALV       WELPIPE =           WELTREAT=           WELTREAT=
*ELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR      WELODOR =NONE       WELACT  =           WELACT  =           WELACT  =
*ELACT  =FARM     WELACT  =RESID    WELFREC =CONSTANT
          **********************************************************************

SITE    =NCMI139  LATITUDE= 35.9575 LONGITUD= 82.2070 SAMPDATE= 9/05/75 SAMPTIME=1315      TEAMS   =802       DUMMY   =0
PH      = 6.17000 EH      = 334.000 TEMP    = 18.9200 COND    = 41.0000 O2      = 4.94000 SO4     = 9.71364 PO4     = .711479
NO3     = .002060 NH3     =0.000000 ALK     = .360000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=           FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =SPRING   WELDEPTH=0          WELSCREN=0          WELAGE  =0          WELAGEP =1          WELTYPE =
*ELCASE =         WELCLAS =PRIVATE  WELPOINT=OTHER      WELPIPE =PLASTIC    WELPIPE =           WELTREAT=           WELTREAT=
*ELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR      WELODOR =NONE       WELACT  =           WELACT  =           WELACT  =MINE
*ELACT  =FARM     WELACT  =RESID    WELFREQ =CONSTANT
          **********************************************************************

SITE    =NCMI140  LATITUDE= 35.9625 LONGITUD= 82.2060 SAMPDATE= 9/09/75 SAMPTIME=1200      TEAMS   =802       DUMMY   =0
PH      = 6.79000 EH      = 301.000 TEMP    = 22.6300 COND    = 95.0000 O2      = 7.21000 SO4     = 4.70018 PO4     = .664132
NO3     = .073113 NH3     =0.000000 ALK     = .640000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=           FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =SPRING   WELDEPTH=0          WELSCREN=0          WELAGE  =0          WELAGEP =25         WELTYPE =
*ELCASE =         WELCLAS =PRIVATE  WELPOINT=OTHER      WELPIPE =GALV       WELPIPE =           WELTREAT=           WELTREAT=
*ELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR      WELODOR =NONE       WELACT  =           WELACT  =           WELACT  =MINE
WELACT  =FARM     WELACT  =RESID    WELFREC =CONSTANT
          **********************************************************************

SITE    =NCMI141  LATITUDE= 35.9543 LONGITUD= 82.1484 SAMPDATE= 9/08/75 SAMPTIME=2000      TEAMS   =802       DUMMY   =0
PH      = 6.29000 EH      = 228.000 TEMP    = 17.6500 COND    = 18.0000 O2      = 3.48000 SO4     = 8.68129 PO4     = .858773
NO3     = .073113 NH3     =0.000000 ALK     = .240000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=           FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =SPRING   WELDEPTH=0          WELSCREN=0          WELAGE  =0          WELAGEP =4          WELTYPE =
```

NURE MASTER FILE EDIT

```
WELCASE =          WELCLAS =PRIVATE   WELPOINT=OTHER     WELPIPE =PLASTIC  WELPIPE =          WELTREAT=          WELTREAT=
WELTREAT=NONE      WELUSE  =HUMAAN    WELAPPER=CLEAR     WELDOOR =NONE     WELACT  =          WELACT  =          WELACT  =
WELACT  =FARM      WELACT  =RESID     WELFREQ =CONSTANT
          **********************************************************************


SITE    =NCMI142  LATITUDE= 35.9444 LONGITUD= 82.1457 SAMPDATE= 9/08/75 SAMPTIME=1800     TEAMS   =802      DUMMY   =0
PH      = 6.30000 EH      = 316.000 TEMP    = 17.7200 COND    = 33.0000 O2      = 7.45000 SO4     = 5.78668 PO4     = .619040
NO3     = .026204 NH3     =0.CCOCOO ALK     = .340000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =13       WELTYPE =
WELCASE =         WELCLAS =PRIVATE  WELPOINT=OTHER    WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =FARM     WELACT  =RESID    WELFREQ =CONSTANT
          **********************************************************************


SITE    =NCMI143  LATITUDE= 35.9395 LONGITUD= 82.1767 SAMPDATE= 9/08/75 SAMPTIME=1500     TEAMS   =802      DUMMY   =0
PH      = 6.14000 EH      = 418.000 TEMP    = 20.3000 COND    = 52.0000 O2      = 2.52000 SO4     =0.000000 PO4     = .421079
NO3     = .073112 NH3     =0.CCCCCO ALK     = .460000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =C        WELAGEP =2        WELTYPE =
WELCASE =         WELCLAS =PRIVATE  WELPOINT=OTHER    WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =FARM     WELACT  =RESID    WELFREQ =CONSTANT
          **********************************************************************


SITE    =NCMI144  LATITUDE= 35.9234 LONGITUD= 82.1798 SAMPDATE= 9/08/75 SAMPTIME=1400     TEAMS   =802      DUMMY   =0
PH      = 5.94000 EH      = 371.000 TEMP    = 19.2400 COND    = 31.0000 O2      = 2.46000 SO4     = 5.78668 PO4     = .619040
NO3     = .061722 NH3     =0.CCOCOO ALK     = .620000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =23       WELTYPE =
WELCASE =         WELCLAS =PRIVATE  WELPOINT=OTHER    WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =FARM     WELACT  =RESID    WELFREQ =CONSTANT
          **********************************************************************


SITE    =NCMI145  LATITUDE= 35.9275 LONGITUD= 82.2087 SAMPDATE= 9/09/75 SAMPTIME=945      TEAMS   =802       DUMMY   =0
PH      = 7.43000 EH      = 242.000 TEMP    = 15.0800 COND    = 31.0000 O2      = 6.30000 SO4     = 2.33219 PO4     = .514894
NO3     =0.CCCOCO NH3     =0.000000 ALK     = .380000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =SPRING   WELDEPTH=0        WELSCREN=C        WELAGE  =0        WELAGEP =2        WELTYPE =
WELCASE =         WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =GALV     WELPIPE =         WELTREAT=         WELTREAT=
```


NURE MASTER FILE EDIT

```
WELTREAT=NONE      WELUSE  =HUMAAN    WELAPPER=CLEAR     WELODOR =NONE     WELACT  =          WELACT  =          WELACT  =MINE
WELACT  =FARM      WELACT  =RESID     WELFREQ =CONSTANT
          **********************************************************************


SITE    =NCMI146  LATITUDE= 35.9184 LONGITUD= 82.1558 SAMPDATE= 9/01/75 SAMPTIME=1415     TEAMS   =803      DUMMY   =0
PH      = 6.15000 EH      =-463.000 TEMP    = 13.8600 COND    = 42.0000 O2      = 5.71000 SO4     = 9.71364 PO4     = .131016
NO3     = .028547 NH3     =0.CCCCOO ALK     = .200000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =
WELCASE =         WELCLAS =         WELPOINT=WELL     WELPIPE =         WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=         WELUSE  =ANIMAL   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =
          **********************************************************************


SITE    =NCMI149  LATITUDE= 35.9102 LONGITUD= 82.1475 SAMPDATE= 9/01/75 SAMPTIME=2000     TEAMS   =801      DUMMY   =0
PH      = 6.63000 EH      = 217.CCO TEMP    = 13.6200 COND    = 24.0000 O2      = 5.74000 SO4     =0.000000 PO4     = .105076
NO3     = .048320 NH3     = .146725 ALK     = .180000 FILT    = 1900.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =
WELCASE =         WELCLAS =CTHER    WELPOINT=WELL     WELPIPE =         WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =ANIMAL   WELAPPER=MURKY    WELODOR =         WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          **********************************************************************


SITE    =NCMI150  LATITUDE= 35.9084 LONGITUD= 82.1510 SAMPDATE= 9/01/75 SAMPTIME=1100     TEAMS   =801      DUMMY   =0
PH      = 5.83000 EH      = 255.000 TEMP    = 18.1900 COND    = 15.0000 O2      = 3.67000 SO4     = 9.31741 PO4     = .457497
NO3     = .067335 NH3     = .029631 ALK     = .140000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =11       WELTYPE =
WELCASE =         WELCLAS =PRIVATE  WELPOINT=OTHER    WELPIPE =GALV     WELPIPE =PLASTIC  WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          **********************************************************************


SITE    =NCMI152  LATITUDE= 35.9102 LONGITUD= 82.1438 SAMPDATE= 9/01/75 SAMPTIME=1720     TEAMS   =801      DUMMY   =0
PH      = 6.65000 EH      = 224.000 TEMP    = 18.0800 COND    = 15.0000 O2      = 2.43000 SO4     = 3.30650 PO4     = .257438
NO3     = .076063 NH3     = .081116 ALK     = .140000 FILT    = 1900.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =
WELCASE =         WELCLAS =         WELPOINT=WELL     WELPIPE =         WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =ANIMAL   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
```

NURE MASTER FILE EDIT

```
WELACT  =          WELACT  =FARM     WELFREQ =
          **********************************************************************

SITE     =NCMI153  LATITUDE= 35.9134 LONGITUD= 82.1378 SAMPDATE= 9/17/75 SAMPTIME=1600     TEAMS   =B02      DUMMY   =0
PH       = 6.56000 EH       = 299.000 TEMP    = 16.9700 COND    = 29.0000 O2       = 3.16000 SO4     = 4.70018 PO4     = .185132
NO3      = .028547 NH3      = .019653 ALK     = .220000 FILT    = 2000.00 RESIN    = 500.000 FORMNAME=         FORMAGE =
ROCKTYPE=

         =GROUND   WELOR    =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =6        WELTYPE =
WELCASE  =         WELCLAS =PRIVATE  WELPCINT=OTHER    WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE      WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT   =FARM     WELACT  =RESID    WELFREQ =CONSTANT
          **********************************************************************

SITE     =NCMI155  LATITUDE= 35.9626 LONGITUD= 82.1479 SAMPDATE= 8/29/75 SAMPTIME=1030     TEAMS   =B01      DUMMY   =0
PH       = 6.18000 EH       =-145.000 TEMP    = 20.3200 COND    = 32.0000 O2       = 8.19000 SO4     =0.000000 PO4     =-.037205
NO3      = .026204 NH3      = .009777 ALK     = .140000 FILT    = 2000.00 RESIN    = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

         =GROUND   WELOR    =WELL     WELDEPTH=140      WELSCREN=0        WELAGE  =3        WELAGEP =3        WELTYPE =DRILLED
WELCASE  =YES      WELCLAS =PRIVATE  WELPCINT=OTHER    WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE      WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT   =         WELACT  =RESID    WELFREQ =CONSTANT
          **********************************************************************

SITE     =NCMI156  LATITUDE= 35.9015 LONGITUD= 82.1487 SAMPDATE= 9/01/75 SAMPTIME=1000     TEAMS   =B02      DUMMY   =0
PH       = 5.55000 EH       = 372.000 TEMP    = 14.9500 COND    = 38.0000 O2       = 4.85000 SO4     =0.000000 PO4     = .031264
NO3      = .284172 NH3      =0.000000 ALK     = .160000 FILT    = 2000.00 RESIN    = 500.000 FORMNAME=         FORMAGE =
ROCKTYPE=

         =GROUND   WELOR    =WELL     WELDEPTH=105      WELSCREN=0        WELAGE  =6        WELAGEP =6        WELTYPE =DRILLED
WELCASE  =YES      WELCLAS =PRIVATE  WELPOINT=PUMP     WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE      WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =RESID
WELACT   =FARM     WELACT  =MINE     WELFREQ =CONSTANT
          **********************************************************************

SITE     =NCMI157  LATITUDE= 35.9005 LONGITUD= 82.1457 SAMPDATE= 9/01/75 SAMPTIME=1200     TEAMS   =B02      DUMMY   =0
PH       = 5.53000 EH       = 382.000 TEMP    = 21.9500 COND    = 8.00000 O2       = 8.43000 SO4     = 7.94136 PO4     = .031264
NO3      = .056256 NH3      =0.000000 ALK     = .080000 FILT    = 2000.00 RESIN    = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

         =GROUND   WELOR    =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =2        WELTYPE =
WELCASE  =         WELCLAS =PRIVATE  WELPOINT=WELL     WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE      WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =RESID
WELACT   =FARM     WELACT  =MINE     WELFREQ =CONSTANT
```


NURE MASTER FILE EDIT

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          **********************************************************************

SITE     =NCMI158  LATITUDE= 35.8560 LONGITUD= 82.1421 SAMPDATE= 9/01/75 SAMPTIME=1445     TEAMS   =B02      DUMMY   =0
PH       = 5.31000 EH       = 364.000 TEMP    = 15.7400 COND    = 16.0000 O2       = 9.08000 SO4     =0.000000 PO4     = .439114
NO3      = .187828 NH3      =0.000000 ALK     = .100000 FILT    = 2000.00 RESIN    = 500.000 FORMNAME=         FORMAGE =
ROCKTYPE=

         =GROUND   WELOR    =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =10       WELTYPE =
WELCASE  =         WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE      WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =MINE
WELACT   =FARM     WELACT  =RESID    WELFREQ =CONSTANT
          **********************************************************************

SITE     =NCMI159  LATITUDE= 35.8967 LONGITUD= 82.1463 SAMPDATE= 9/01/75 SAMPTIME=1700     TEAMS   =B02      DUMMY   =0
PH       = 6.85000 EH       = 325.000 TEMP    = 14.7000 COND    = 14.0000 O2       = 9.82000 SO4     =0.000000 PO4     = .303632
NO3      = .030917 NH3      =0.000000 ALK     = .180000 FILT    = 2000.00 RESIN    = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

         =GROUND   WELOR    =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =5        WELTYPE =
WELCASE  =         WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE      WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =FARM
WELACT   =RESID    WELACT  =MINE     WELFREQ =CONSTANT
          **********************************************************************

SITE     =NCMI160  LATITUDE= 35.8945 LONGITUD= 82.1490 SAMPDATE= 8/30/75 SAMPTIME=1005     TEAMS   =B01      DUMMY   =0
PH       = 5.65000 EH       = 240.000 TEMP    = 18.5100 COND    = 21.0000 O2       = 2.94000 SO4     = 18.9545 PO4     = .242527
NO3      = .088305 NH3      =0.000000 ALK     = .190000 FILT    = 2000.00 RESIN    = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

         =GROUND   WELOR    =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =9        WELAGEP =9        WELTYPE =
WELCASE  =         WELCLAS =PRIVATE  WELPOINT=BEFORSTO WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE      WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =SMELT
WELACT   =DUMP     WELACT  =RESID    WELFREQ =CONSTANT
          **********************************************************************

SITE     =NCMI161  LATITUDE= 35.8938 LONGITUD= 82.1494 SAMPDATE= 8/30/75 SAMPTIME=1345     TEAMS   =B01      DUMMY   =0
PH       = 5.87000 EH       = 214.000 TEMP    = 17.2800 COND    = 69.0000 O2       = 3.03000 SO4     = 8.68129 PO4     = .079826
NO3      = .130142 NH3      =0.000000 ALK     = .180000 FILT    = 2000.00 RESIN    = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

         =GROUND   WELOR    =WELL     WELDEPTH=23       WELSCREN=0        WELAGE  =1        WELAGEP =1        WELTYPE =DRILLED
WELCASE  =YES      WELCLAS =SEMIPRIV WELPCINT=OTHER    WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE      WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT   =         WELACT  =RESID    WELFREQ =CONSTANT
          **********************************************************************
```

NURE MASTER FILE EDIT

```
SITE    =NCMI166  LATITUDE= 35.8951 LONGITUD= 82.1331 SAMPDATE= 9/14/75 SAMPTIME=1715     TEAMS   =B01      DUMMY   =0
PH      = 6.05000 EH      = 336.000 TEMP    = 15.3900 COND    = 63.0000 O2      = 5.00000 SO4     = 4.70C18 PO4     =-.026132
NO3     = .033314 NH3     = .C6C194 ALK     = .28C000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=275      WELSCREN=0        WELAGE  =1        WELAGEP =1        WELTYPE =DRILLED
WELCASE =YES      WELCLAS =PUBLIC   WELPOINT=WELL     WELPIPE =PLASTIC  WELPIPE =        WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =        WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREC =CONSTANT
          **********************************************************************

SITE    =NCMI167  LATITUDE= 35.8904 LONGITUD= 82.1845 SAMPDATE= 9/02/75 SAMPTIME=1820     TEAMS   =B01      DUMMY   =0
PH      = 5.61000 EH      = 441.000 TEMP    = 17.6600 COND    = 25.0000 O2      = 3.34000 SO4     = 8.68129 PO4     = .121016
NO3     = .073113 NH3     = .049900 ALK     = .220000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =        WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =
WELCASE =         WELCLAS =PRIVATE  WELPOINT=         WELPIPE =PLASTIC  WELPIPE =        WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=SLHAZY   WELODOR =NONE     WELACT  =        WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREC =CONSTANT
          **********************************************************************

SITE    =NCMI168  LATITUDE= 35.9057 LONGITUD= 82.1860 SAMPDATE= 8/31/75 SAMPTIME=1350     TEAMS   =B01      DUMMY   =0
PH      = 6.22000 EH      = 252.000 TEMP    = 15.5400 COND    = 29.0000 O2      = 4.47000 SO4     = 16.3554 PO4     = .597273
NO3     =0.CCCCCC NH3     = .019653 ALK     = .260000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =
WELCASE =         WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =GALV     WELPIPE =        WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =        WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREC =CONSTANT
          **********************************************************************

SITE    =NCMI169  LATITUDE= 35.9086 LONGITUD= 82.1837 SAMPDATE= 8/31/75 SAMPTIME=1710     TEAMS   =B01      DUMMY   =0
PH      = 6.85000 EH      = 235.000 TEMP    = 19.5100 COND    = 117.000 O2      = .840000 SO4     = 13.0504 PO4     = .335727
NO3     = .134047 NH3     = .019653 ALK     = .560000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE= 1

        =GROUND   WELOR   =WELL     WELDEPTH=400      WELSCREN=0        WELAGE  =7        WELAGEP =7        WELTYPE =DRILLED
WELCASE =YES      WELCLAS =SEMIPRIV WELPOINT=OTHER    WELPIPE =GALV     WELPIPE =PLASTIC  WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =        WELACT  =         WELACT  =SEWAGE
WELACT  =RESID    WELACT  =FARM     WELFREC =CONSTANT
          **********************************************************************

SITE    =NCMI170  LATITUDE= 35.9025 LONGITUD= 82.2135 SAMPDATE= 8/26/75 SAMPTIME=1630     TEAMS   =B02      DUMMY   =0
```


NURE MASTER FILE EDIT

```
PH      = 6.16000 EH      = 365.000 TEMP    = 21.1200 COND    = 43.0000 O2      = 8.34000 SO4     =0.000000 PO4     = .514894
NO3     = 3.29914 NH3     =0.000000 ALK     = .180000 FILT    = 1000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =10       WELTYPE =
WELCASE =         WELCLAS =SEMIPRIV WELPOINT=OTHER    WELPIPE =GALV     WELPIPE =        WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =        WELACT  =         WELACT  =
WELACT  =         WELACT  =RESID    WELFREC =CONSTANT
          **********************************************************************

SITE    =NCMI171  LATITUDE= 35.8826 LONGITUD= 82.2234 SAMPDATE= 8/10/75 SAMPTIME=1300     TEAMS   =B03      DUMMY   =0
PH      = 5.90000 EH      = 265.000 TEMP    = 20.6000 COND    = 14.0000 O2      = 10.5500 SO4     = 5.26868 PO4     =-.080247
NO3     = .030917 NH3     = .029621 ALK     = .900000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =8        WELTYPE =
WELCASE =         WELCLAS =PRIVATE  WELPOINT=OTHER    WELPIPE =PLASTIC  WELPIPE =        WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =        WELACT  =         WELACT  =
WELACT  =DUMP     WELACT  =RESID    WELFREC =CONSTANT
          **********************************************************************

SITE    =NCMI172  LATITUDE= 35.9090 LONGITUD= 82.2324 SAMPDATE= 8/10/75 SAMPTIME=1520     TEAMS   =B03      DUMMY   =0
PH      = 6.40000 EH      = 224.000 TEMP    = 20.4000 COND    = 59.0000 O2      = 9.70000 SO4     = 7.55108 PO4     = .031264
NO3     = .246799 NH3     = .039712 ALK     = .360000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=0        WELSCREN=0        WELAGE  =23       WELAGEP =23       WELTYPE =DRILLED
WELCASE =UNKNOWN  WELCLAS =PRIVATE  WELPOINT=OTHER    WELPIPE =GALV     WELPIPE =PLASTIC  WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =        WELACT  =         WELACT  =
WELACT  =FARM     WELACT  =RESID    WELFREC =CONSTANT
          **********************************************************************

SITE    =NCMI173  LATITUDE= 35.9149 LONGITUD= 82.2386 SAMPDATE= 9/10/75 SAMPTIME=1600     TEAMS   =B03      DUMMY   =0
PH      = 6.50000 EH      = 121.000 TEMP    = 19.6000 COND    = 65.0000 O2      = 9.09000 SO4     = 6.71748 PO4     = .007886
NO3     = .040680 NH3     = .C70558 ALK     = .300000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =SPRING   WELDEPTH=16       WELSCREN=0        WELAGE  =16       WELAGEP =16       WELTYPE =UNKNOWN
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=PUMP     WELPIPE =PLASTIC  WELPIPE =        WELTREAT=         WELTREAT=
WELTREAT=         WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =        WELACT  =         WELACT  =
WELACT  =         WELACT  =         WELFREC =CONSTANT
          **********************************************************************

SITE    =NCMI174  LATITUDE= 35.9167 LONGITUD= 82.2485 SAMPDATE= 8/31/75 SAMPTIME=1430     TEAMS   =B03      DUMMY   =0
PH      = 6.36000 EH      =-457.000 TEMP    = 17.7200 COND    = 29.0000 O2      = 7.77000 SO4     = 12.1868 PO4     = .227850
```

NURE MASTER FILE EDIT

```
NO3     = .067339 NH3     = .102456 ALK     = .160000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=20       WELSCREN=0        WELAGE  =30       WELAGEP =30       WELTYPE =DUG
WELCASE =         WELCLAS =PRIVATE  WELPOINT=OTHER    WELPIPE =GALV     WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          **********************************************************************

SITE    =NCMI180  LATITUDE= 35.9124 LONGITUD= 82.1880 SAMPDATE= 9/10/75 SAMPTIME=915      TEAMS   =802      DUMMY   =0
PH      = 6.39000 EH      = 339.000 TEMP    = 18.3500 COND    = 19.0000 O2      = 1.96000 SO4     = 4.70018 PO4     = .557273
NO3     = .012683 NH3     =0.000000 ALK     = .620000 FILT    =0.000000 RESIN   =0.000000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=75       WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =DRILLED
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=OTHER    WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =FARM
WELACT  =MINE     WELACT  =RESID    WELFREQ =CONSTANT
          **********************************************************************

SITE    =NCMI201  LATITUDE= 35.9648 LONGITUD= 82.1374 SAMPDATE= 9/18/75 SAMPTIME=1130     TEAMS   =803      DUMMY   =0
PH      = 5.85000 EH      = 289.000 TEMP    = 14.4900 COND    = 35.0000 O2      = 7.35000 SO4     = 5.78668 PO4     =-.014928
NO3     = .050931 NH3     = .019653 ALK     = .140000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =DRILLED
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =GALV     WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=         WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =RESID    WELFREQ =CONSTANT
          **********************************************************************

SITE    =NCMI202  LATITUDE= 35.9621 LONGITUD= 82.1534 SAMPDATE= 9/18/75 SAMPTIME=1220     TEAMS   =803      DUMMY   =0
PH      = 5.85000 EH      = 307.000 TEMP    = 16.9300 COND    = 69.0000 O2      = 5.88000 SO4     = 5.03446 PO4     = .031264
NO3     = .028547 NH3     =0.000000 ALK     = .460000 FILT    = 1250.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =
WELCASE =         WELCLAS =         WELPOINT=OTHER    WELPIPE =GALV     WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=         WELUSE  =HUMAAN   WELAPPER=HAZY     WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =DUMP     WELACT  =RESID    WELFREQ =CONSTANT
          **********************************************************************

SITE    =NCMI237  LATITUDE= 35.9675 LONGITUD= 82.1823 SAMPDATE= 9/23/75 SAMPTIME=1700     TEAMS   =BC1      DUMMY   =0
PH      = 6.32000 EH      = 226.000 TEMP    = 17.3000 COND    = 23.0000 O2      = 6.59000 SO4     = 13.3333 PO4     = .131016
NO3     = .434627 NH3     =0.000000 ALK     = .120000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
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NURE MASTER FILE EDIT

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ROCKTYPE=

        =GROUND   WELOR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =
WELCASE =         WELCLAS =PRIVATE  WELPOINT=OTHER    WELPIPE =GALV     WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          **********************************************************************

SITE    =NCMI301  LATITUDE= 35.9575 LONGITUD= 82.1658 SAMPDATE= 9/23/75 SAMPTIME=1245     TEAMS   =803      DUMMY   =0
PH      = 6.65000 EH      = 540.000 TEMP    = 15.6800 COND    = 72.0000 O2      = 5.41000 SO4     = 13.8932 PO4     = .131016
NO3     = .154770 NH3     =0.000000 ALK     = .460000 FILT    = 1850.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =
WELCASE =         WELCLAS =PRIVATE  WELPOINT=OTHER    WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =NONE     WELFREQ =CONSTANT
          **********************************************************************

SITE    =NCMI302  LATITUDE= 35.9780 LONGITUD= 82.1421 SAMPDATE= 9/23/75 SAMPTIME=1430     TEAMS   =801      DUMMY   =0
PH      = 6.84000 EH      = 12.0000 TEMP    = 14.9300 COND    = 126.000 O2      = .820000 SO4     = 15.5608 PO4     =-.003589
NO3     = .010514 NH3     = .146725 ALK     = .540000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=90       WELSCREN=0        WELAGE  =9        WELAGEP =9        WELTYPE =DRILLED
WELCASE =YES      WELCLAS =SEMIPRIV WELPOINT=OTHER    WELPIPE =         WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =OTHER    WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          **********************************************************************

SITE    =NCMI303  LATITUDE= 35.9642 LONGITUD= 82.1583 SAMPDATE= 9/23/75 SAMPTIME=1445     TEAMS   =801      DUMMY   =0
PH      = 6.34000 EH      = 248.000 TEMP    = 13.8400 COND    = 72.0000 O2      = 5.77000 SO4     = 7.55108 PO4     =-.048151
NO3     = .418219 NH3     = .102498 ALK     = .340000 FILT    = 1500.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =
WELCASE =         WELCLAS =PRIVATE  WELPOINT=WELL     WELPIPE =         WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =RESID    WELFREQ =CONSTANT
          **********************************************************************

SITE    =NCMI304  LATITUDE= 35.9457 LONGITUD= 82.1364 SAMPDATE= 9/23/75 SAMPTIME=1700     TEAMS   =801      DUMMY   =0
PH      = 6.11000 EH      = 210.000 TEMP    = 13.3000 COND    = 58.0000 O2      = 6.62000 SO4     = 12.1868 PO4     = .079826
NO3     = 3.07043 NH3     =0.000000 ALK     = .180000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=
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        =GROUND   WELCR   =SPRING   WELDEPTH=0          WELSCREN=0          WELAGE  =0          WELAGEP =0          WELTYPE =
WELCASE =         WELCLAS =PRIVATE  WELPOINT=AFTERSTO  WELPIPE =           WELPIPE =           WELTREAT=           WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR     WELODOR =NONE       WELACT  =           WELACT  =           WELACT  =
WELACT  =FARM     WELACT  =RESID    WELFREQ =CONSTANT
          **********************************************************************


SITE    =NCMI305  LATITUDE= 35.9563 LONGITUD= 82.1687 SAMPDATE= 9/23/75 SAMPTIME=1630      TEAMS   =801       DUMMY   =0
PH      = 6.52000 EH      = 417.000 TEMP    = 16.7300 COND    = 62.0000 O2      = 6.32000 SO4     = 10.3632 PO4     =-.014928
NO3     = .576712 NH3     = .019653 ALK     = .140000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=           FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=31         WELSCREN=6          WELAGE  =27         WELAGEP =15         WELTYPE =DUG
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=AFTERSTO  WELPIPE =COPPER     WELPIPE =           WELTREAT=           WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR     WELODOR =NONE       WELACT  =           WELACT  =           WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          **********************************************************************


SITE    =NCMI337  LATITUDE= 35.9728 LONGITUD= 82.1761 SAMPDATE= 9/23/75 SAMPTIME=1345      TEAMS   =BC2       DUMMY   =0
PH      = 6.48000 EH      = 296.000 TEMP    = 15.4000 COND    = 68.0000 O2      = 3.40000 SO4     =0.000000 PO4     =-.037205
NO3     = .209425 NH3     =0.000000 ALK     = .600000 FILT    = 2200.00 RESIN   = 500.000 FORMNAME=           FORMAGE =
ROCKTYPE=

        =GROUND   WELCR   =SPRING   WELDEPTH=0          WELSCREN=0          WELAGE  =0          WELAGEP =45         WELTYPE =
WELCASE =         WELCLAS =PRIVATE  WELPOINT=OTHER     WELPIPE =GALV       WELPIPE =           WELTREAT=           WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR     WELODOR =NONE       WELACT  =           WELACT  =           WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          **********************************************************************
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TABLE 13. Tabulated Field Data from Brush Creek, North Carolina Study Area.

FIELD MEASUREMENT DATA

SITE CODE	LAT	LONG	ALKA	COND	SO4	NO3	PO4	NH3	PH	EH	O2	FILT	RESIN	TEMP	TEAM
NCBA001	36.0007	82.2189	0.50	81.	15.00	0.05	0.08	0.07	7.62	204.	9.20	1650.	500.	13.40	B03
NCBA002	36.0007	82.2224	0.48	81.	0.0	0.05	0.01	0.11	7.78	226.	9.20	1900.	500.	14.25	B03
NCBA003	36.0004	82.2258	0.42	67.	12.19	0.12	0.24	0.06	7.80	232.	9.51	1600.	500.	14.40	B03
NCBA004	36.0029	82.2319	0.42	70.	15.00	0.16	0.39	0.12	7.80	249.	9.04	1650.	500.	15.90	B03
NCBA005	36.0021	82.2322	0.32	47.	14.17	0.06	0.03	0.01	7.91	230.	9.15	2000.	500.	16.70	B03
NCBA006	36.0045	82.2355	0.36	56.	14.72	0.09	0.06	0.10	7.87	220.	8.90	1950.	500.	15.90	B03
NCBA007	36.0081	82.2458	0.68	120.	11.89	0.15	0.11	0.08	7.69	210.	8.60	1850.	500.	15.40	BC3
NCBA008	36.0139	82.2273	0.60	65.	0.0	0.12	-0.04	0.02	8.12	344.	6.31	2000.	500.	16.53	B01
NCBA009	36.0111	82.1868	0.36	8.	11.60	0.18	0.09	0.06	7.52	182.	8.69	1250.	500.	15.94	B03
NCBA010	36.0182	82.1833	0.42	67.	3.31	0.16	0.06	0.06	7.67	230.	8.80	2044.	4544.	15.80	B03
NCBA011	36.0294	82.2480	0.44	50.	0.0	0.12	0.16	0.02	8.15	372.	6.39	2000.	500.	16.83	B01
NCBA104	36.0026	82.2319	0.62	110.	3.31	0.04	-0.06	0.02	6.98	277.	8.90	2000.	500.	17.20	B03
NCBA107	36.0074	82.2473	0.78	122.	5.71	0.22	0.32	0.06	7.50	220.	8.90	1900.	500.	16.00	B03
NCBA108	36.0144	82.2282	0.86	92.	4.70	2.73	0.11	0.0	7.04	371.	3.48	0.	500.	15.14	B01
NCBA109	36.0124	82.1850	0.46	115.	5.79	2.36	0.11	0.0	6.48	279.	7.43	2000.	500.	14.70	B03
NCBA110	36.0153	82.1675	0.46	137.	22.70	0.02	-0.03	0.0	7.92	251.	5.12	2000.	500.	20.44	B03
NCBA111	36.0298	82.2487	0.44	52.	0.0	2.02	0.16	0.0	6.75	412.	6.27	2000.	500.	17.90	P01
NCBA209	36.0172	82.2063	0.74	112.	0.0	4.01	0.23	0.0	6.55	330.	6.18	2000.	500.	17.94	B01
NCBA301	36.0029	82.1836	0.32	47.	30.23	0.17	0.48	0.0	6.77	394.	6.92	2000.	500.	13.65	B03
NCBU001	35.9956	82.2685	0.46	81.	10.99	0.05	0.16	0.0	7.19	219.	6.11	2000.	500.	16.85	B01
NCBU002	35.9905	82.2567	0.48	86.	0.0	0.10	0.03	0.10	7.74	221.	7.11	2000.	500.	15.09	B01
NCBU003	35.9851	82.2707	0.30	38.	4.06	0.01	0.21	0.08	8.04	281.	6.39	2000.	500.	17.17	B01
NCBU004	35.9724	82.2660	0.26	25.	4.70	0.13	0.01	0.0	7.85	456.	6.40	2000.	500.	16.63	B01
NCBU005	35.9363	82.2502	0.28	49.	0.0	0.12	0.03	0.0	7.51	248.	7.05	2100.	500.	15.38	B01
NCBU101	35.9957	82.2655	0.58	125.	9.38	0.13	0.23	0.02	0.0	186.	6.31	2000.	500.	18.71	B01
NCBU102	35.9909	82.2569	0.72	166.	10.36	0.32	-0.01	0.02	6.53	346.	5.03	2000.	500.	18.32	B01
NCBU103	35.9851	82.2701	0.62	94.	0.0	0.04	0.30	0.04	6.74	306.	5.79	2100.	500.	19.39	B01
NCBU104	35.9721	82.2685	0.64	55.	3.31	0.04	0.30	0.0	6.88	431.	5.81	2000.	500.	18.03	B01
NCBU105	35.9372	82.2502	0.36	55.	4.70	0.09	0.48	0.04	6.84	388.	7.25	2100.	500.	16.75	B01
NCHU001	36.0143	82.2666	0.30	47.	7.14	0.04	0.08	0.0	7.91	319.	7.90	2000.	500.	13.96	B01
NCHU101	36.0048	82.2722	0.70	115.	9.38	2.47	0.03	0.0	6.52	257.	3.63	2000.	500.	19.00	B01
NCMI001	35.9967	82.2497	0.84	115.	6.72	0.06	0.40	0.0	7.59	202.	6.70	2000.	500.	16.09	B01
NCMI002	35.9859	82.2500	0.50	68.	5.27	0.03	0.40	0.0	0.0	241.	6.11	2000.	500.	14.75	B01
NCMI003	35.9942	82.2332	0.38	50.	5.27	0.01	0.09	0.09	7.79	135.	6.82	2000.	500.	19.51	B02
NCMI004	35.9920	82.2329	0.92	90.	5.79	0.12	0.37	0.11	7.52	276.	6.64	2000.	500.	15.76	B02
NCMI005	35.9908	82.2329	0.50	52.	6.27	0.11	0.03	0.10	7.58	172.	6.77	2000.	500.	16.58	B02
NCMI006	35.9904	82.2317	0.40	40.	4.70	0.10	0.07	0.06	7.51	77.	7.20	2000.	500.	13.62	B02
NCMI007	35.9889	82.2287	0.36	42.	4.70	0.07	0.11	0.03	7.79	121.	7.00	2000.	500.	16.85	B02
NCMI008	35.9849	82.2279	0.36	43.	6.27	0.07	0.02	0.02	7.67	172.	5.69	2000.	500.	18.50	B02
NCMI009	35.9827	82.2292	0.64	65.	4.70	0.08	0.34	0.04	7.61	10.	5.21	2000.	500.	15.05	B02
NCMI010	35.9786	82.2312	0.52	56.	6.27	0.07	0.07	0.04	7.70	220.	6.17	2000.	500.	13.74	B02
NCMI011	35.9787	82.2354	0.54	57.	6.72	0.07	0.03	0.02	7.63	236.	6.84	2000.	500.	13.45	B02
NCMI012	35.9774	82.2374	0.24	32.	4.70	0.15	0.03	0.0	7.28	173.	2.90	2000.	500.	12.13	B02
NCMI013	35.9779	82.2376	0.76	68.	3.31	0.01	-0.04	0.24	6.97	67.	3.14	2000.	500.	14.13	B02
NCMI014	35.9779	82.2399	0.66	88.	0.0	0.18	0.26	0.15	6.83	148.	6.58	2000.	500.	13.11	B02
NCMI015	35.9784	82.2413	0.0	0.	0.0	0.0	0.0	0.0	0.0	0.	0.0	0.	0.	0.0	B02
NCMI016	35.9765	82.2438	0.34	46.	5.27	2.73	0.07	0.01	7.45	298.	3.23	2000.	500.	11.50	B02
NCMI017	35.9774	82.2444	0.0	0.	0.0	0.0	0.0	0.0	0.0	0.	0.0	0.	0.	0.0	B02
NCMI018	35.9774	82.2303	0.32	38.	6.72	0.05	0.34	0.02	7.54	130.	6.24	2000.	500.	14.16	B02

FIELD MEASUREMENT DATA

SITE CODE	LAT	LONG	ALKA	COND	SO4	NO3	PO4	NH3	PH	EH	O2	FILT	RESIN	TEMP	TEAM
NCMI019	35.9746	82.2313	0.26	33.	3.31	0.06	0.01	0.02	7.33	111.	6.40	2000.	500.	13.05	B02
NCMI020	35.9713	82.2335	0.32	37.	0.0	0.15	-0.10	0.0	7.25	206.	5.44	2000.	500.	12.60	B02
NCMI021	35.9708	82.2330	0.24	28.	3.31	0.09	-0.04	0.07	7.26	373.	6.40	2000.	500.	11.09	B02
NCMI022	35.9641	82.2322	0.20	27.	0.0	0.02	0.14	0.0	7.65	409.	4.19	2000.	500.	12.59	B02
NCMI023	35.9638	82.2337	0.22	26.	3.31	0.06	0.21	0.0	7.68	184.	3.45	2000.	500.	12.66	B02
NCMI024	35.9636	82.2352	0.26	28.	0.0	0.05	0.56	0.06	7.48	184.	5.16	2000.	500.	12.41	B02
NCMI025	35.9597	82.2214	0.70	83.	4.70	0.09	0.13	0.09	7.89	161.	4.58	2000.	500.	17.59	B02
NCMI026	35.9985	82.2214	0.56	65.	6.27	0.12	0.27	0.02	7.82	162.	6.39	2000.	500.	18.28	B02
NCMI027	35.9953	82.2213	0.60	64.	3.31	0.12	0.16	0.09	7.75	228.	5.54	2000.	500.	19.96	B02
NCMI028	35.9920	82.2204	0.50	58.	6.72	0.13	0.58	0.05	7.62	88.	5.96	2000.	500.	17.70	B02
NCMI029	35.9925	82.2191	0.64	64.	6.27	0.13	0.53	0.08	7.53	128.	4.97	2000.	500.	18.21	B02
NCMI030	35.9920	82.2191	0.76	82.	7.55	0.12	0.30	0.04	7.71	116.	3.57	2000.	500.	18.50	B02
NCMI031	35.9886	82.2199	0.58	60.	0.0	0.08	0.74	0.0	7.60	102.	5.36	2000.	500.	17.25	B02
NCMI032	35.9861	82.2174	0.56	67.	6.27	0.25	0.96	0.08	7.67	172.	4.60	2000.	500.	17.45	B02
NCMI033	35.9854	82.2175	0.48	55.	4.70	0.07	0.30	0.0	7.49	107.	6.45	2000.	500.	16.39	B02
NCMI034	35.9809	82.2078	0.42	44.	5.71	0.02	0.69	0.0	7.71	222.	4.82	2000.	500.	20.64	B02
NCMI035	35.9912	82.1981	0.48	54.	6.27	0.14	0.56	0.0	7.81	158.	6.43	2000.	500.	19.35	B02
NCMI036	35.7769	82.1946	0.38	42.	4.06	0.25	0.27	0.0	7.51	147.	6.21	2000.	500.	16.82	B02
NCMI037	35.9824	82.1960	0.46	76.	8.32	2.47	0.40	0.12	7.55	260.	6.74	1250.	500.	16.53	B02
NCMI038	35.9750	82.1892	0.38	42.	5.27	0.30	0.35	0.02	7.30	291.	6.79	2000.	500.	15.78	B01
NCMI039	35.9560	82.2127	0.42	44.	6.72	0.07	0.79	0.02	7.67	366.	5.90	2000.	500.	18.83	B02
NCMI040	35.9564	82.1944	0.44	45.	0.0	0.08	0.79	0.0	7.79	335.	6.00	2000.	500.	18.12	B02
NCMI041	35.9550	82.1475	0.40	56.	7.55	0.20	0.90	0.0	7.71	227.	5.85	2000.	500.	18.82	B02
NCMI042	35.9458	82.1441	0.46	58.	10.04	0.15	0.53	0.06	7.61	174.	5.30	2000.	500.	20.08	B02
NCMI043	35.9407	82.1710	0.54	66.	6.27	0.25	0.69	0.0	7.54	181.	6.25	2000.	500.	20.96	B02
NCMI044	35.9300	82.1737	0.46	54.	0.0	0.19	0.48	0.0	6.81	341.	6.76	2000.	500.	19.94	B02
NCMI045	35.9275	82.2078	0.56	56.	9.38	0.21	0.60	0.0	7.76	207.	5.66	2000.	500.	16.66	B02
NCMI046	35.9169	82.1539	0.10	28.	8.32	0.12	0.12	0.08	7.61	-463.	7.37	2000.	500.	20.16	B03
NCMI047	35.9146	82.1544	0.12	28.	0.0	0.14	0.16	0.06	7.35	-461.	8.79	2900.	500.	18.40	B02
NCMI048	35.9135	82.1531	0.24	49.	0.0	0.29	0.11	0.12	7.42	-462.	7.22	1900.	500.	19.08	B03
NCMI049	35.9125	82.1480	0.34	56.	9.71	0.07	-0.08	0.08	7.76	187.	5.28	2000.	500.	18.95	B01
NCMI050	35.9119	82.1477	0.14	27.	4.70	0.14	0.48	0.05	7.45	214.	5.53	1500.	500.	21.42	B01
NCMI051	35.9109	82.1426	0.26	51.	10.99	2.17	0.64	0.25	7.48	202.	6.80	1300.	500.	21.85	B01
NCMI052	35.9098	82.1431	0.14	21.	0.0	0.14	0.44	0.12	7.24	234.	5.65	1800.	500.	20.72	B01
NCMI053	35.9120	82.1349	0.32	51.	7.55	2.36	0.68	0.10	7.54	210.	6.33	2000.	500.	15.61	B02
NCMI054	35.9068	82.1280	0.34	51.	31.85	2.47	0.11	0.15	7.52	311.	5.56	2000.	500.	16.01	B02
NCMI055	35.9035	82.1473	0.14	23.	0.0	0.03	0.30	0.08	7.24	-110.	7.62	1400.	500.	18.25	B01
NCMI056	35.9019	82.1479	0.32	47.	7.55	0.07	0.30	0.0	7.41	268.	5.18	2000.	1000.	16.77	B02
NCMI057	35.9009	82.1457	0.30	43.	12.19	0.03	0.19	0.35	7.21	261.	5.58	2000.	500.	17.45	B02
NCMI058	35.8966	82.1440	0.32	34.	5.79	0.06	0.44	0.04	7.58	256.	5.35	2000.	500.	19.92	B02
NCMI059	35.8960	82.1452	0.16	19.	0.0	0.09	0.48	0.12	7.31	294.	6.26	2000.	1000.	20.58	B02
NCMI060	35.8936	82.1500	0.24	28.	10.36	0.0	0.51	0.47	6.92	128.	5.80	2000.	1000.	16.45	B01
NCMI061	35.8926	82.1500	0.10	20.	8.32	0.04	0.34	0.04	7.31	196.	6.13	2004.	1000.	17.80	B01
NCMI062	35.8857	82.1467	0.0	0.	0.0	0.0	0.0	0.0	0.0	0.	0.0	0.	0.	0.0	B01
NCMI063	35.8856	82.1473	0.12	22.	5.71	0.13	0.24	0.06	7.37	217.	7.14	2000.	1000.	20.62	B01
NCMI064	35.8778	82.1462	0.06	12.	0.0	0.04	-0.18	0.08	6.82	237.	4.64	2000.	1000.	17.45	B01
NCMI065	35.8768	82.1452	0.08	8.	0.0	0.05	-0.06	0.17	6.59	226.	2.59	2000.	1000.	17.32	B01
NCMI066	35.8903	82.1344	0.28	27.	3.31	0.13	0.27	0.0	7.27	168.	6.20	2000.	500.	15.96	B02
NCMI067	35.8907	82.1856	0.24	28.	13.05	0.12	0.20	0.06	7.20	474.	6.48	2000.	500.	17.97	B01

FIELD MEASUREMENT DATA

SITE CODE	LAT	LONG	ALKA	COND	SO4	NO3	PO4	NH3	PH	EH	O2	FILT	RESIN	TEMP	TEAM
NCMI068	35.9061	82.1875	0.20	46.	6.72	0.09	0.23	0.32	7.60	178.	5.03	2000.	500.	18.11	B01
NCMI069	35.9066	82.1857	0.32	55.	2.33	0.15	0.46	0.23	7.63	218.	5.15	2000.	500.	19.87	B01
NCMI070	35.9046	82.2153	0.18	35.	0.0	0.04	0.02	0.06	7.59	-468.	6.44	2000.	500.	22.98	B03
NCMI071	35.8808	82.2224	0.14	18.	6.72	0.03	-0.03	0.07	6.85	220.	10.62	2000.	500.	17.90	B03
NCMI072	35.9096	82.2317	0.28	35.	12.33	0.06	-0.01	0.06	7.37	165.	10.17	2000.	500.	19.25	B03
NCMI073	35.9141	82.2386	0.34	50.	8.32	0.0	0.96	0.0	7.68	-457.	7.07	1500.	500.	19.46	B03
NCMI074	35.9164	82.2486	0.32	57.	7.55	0.25	0.51	0.16	7.65	-457.	7.12	2000.	1000.	20.48	B03
NCMI101	35.9974	82.2498	0.70	118.	7.55	2.47	0.16	0.0	6.80	296.	6.95	2100.	500.	17.66	B01
NCMI102	35.9889	82.2500	0.50	91.	4.70	0.22	0.21	0.0	6.49	227.	4.29	2000.	500.	20.58	B01
NCMI103	35.9989	82.2330	0.72	109.	8.68	0.07	0.27	0.0	7.37	296.	6.90	2000.	500.	20.27	B02
NCMI104	35.9954	82.2344	1.06	98.	5.27	0.13	-0.08	0.0	6.31	422.	2.71	2000.	500.	13.84	B02
NCMI105	35.9906	82.2329	0.48	51.	6.72	0.04	0.16	0.02	6.56	207.	1.82	2100.	500.	14.43	B02
NCMI106	35.9912	82.2332	0.40	51.	0.0	0.13	0.08	0.03	6.52	231.	3.26	2000.	500.	19.27	B02
NCMI108	35.9860	82.2275	0.40	47.	6.27	0.04	0.17	0.02	6.61	291.	6.72	2000.	500.	18.63	B02
NCMI109	35.9820	82.2292	0.56	87.	11.60	0.09	0.17	0.04	6.62	205.	8.08	2000.	500.	17.32	B02
NCMI110	35.9788	82.2317	1.44	23.	4.06	0.06	0.66	0.01	6.30	356.	2.44	2000.	500.	16.47	B02
NCMI111	35.9760	82.2362	0.30	39.	8.68	0.05	0.21	0.04	7.38	311.	2.58	2000.	500.	10.92	B02
NCMI114	35.9779	82.2408	0.78	84.	6.27	0.20	0.19	0.10	6.34	199.	4.58	2000.	500.	12.92	B02
NCMI118	35.9766	82.2292	0.92	123.	6.72	0.09	0.20	0.0	6.54	597.	2.34	2000.	500.	19.01	B02
NCMI119	35.9747	82.2310	0.30	44.	6.27	0.10	0.08	0.03	6.39	471.	1.88	2000.	500.	16.83	B02
NCMI120	35.9717	82.2332	0.22	36.	6.72	0.08	0.06	0.0	6.49	324.	4.27	2000.	500.	14.30	B02
NCMI121	35.9728	82.2317	0.16	18.	0.0	0.07	-0.04	0.01	6.19	350.	3.25	2000.	500.	10.45	B02
NCMI125	35.9583	82.2221	0.46	80.	10.36	0.23	0.20	0.01	6.87	186.	2.23	2000.	500.	20.20	B02
NCMI126	35.9986	82.2214	0.60	82.	10.04	0.17	0.21	0.0	7.37	266.	3.12	2000.	500.	19.89	B02
NCMI129	0.0	0.0	0.16	26.	5.27	0.07	-0.05	0.01	5.90	265.	5.30	2000.	500.	19.25	B03
NCMI132	35.9841	82.2171	0.46	50.	4.06	0.09	1.03	0.0	6.72	288.	3.02	2000.	500.	15.43	B02
NCMI133	35.9852	82.2181	0.64	50.	4.06	0.02	0.16	0.0	6.54	328.	3.68	2000.	500.	11.94	B02
NCMI134	35.9861	82.2135	0.76	107.	9.03	0.14	0.44	0.0	8.33	198.	0.78	2000.	500.	20.14	B02
NCMI136	35.9713	82.1961	0.20	46.	7.55	0.55	1.03	0.02	5.80	430.	2.52	2000.	500.	14.20	B02
NCMI137	35.9902	82.1633	0.30	36.	0.0	0.07	-0.04	0.05	5.70	307.	7.80	1900.	500.	16.40	B03
NCMI138	35.9753	82.1882	0.26	37.	9.03	2.26	0.01	0.0	6.17	292.	6.03	2000.	500.	14.48	B01
NCMI139	35.9575	82.2070	0.36	41.	5.71	0.00	0.71	0.0	6.17	334.	4.94	2000.	500.	18.92	B02
NCMI140	35.9829	82.2060	0.64	95.	4.70	0.07	0.66	0.0	6.79	301.	7.21	2000.	500.	22.63	B02
NCMI141	35.9543	82.1484	0.24	18.	8.68	0.07	0.90	0.0	6.29	228.	3.48	2000.	500.	17.65	B02
NCMI142	35.9444	82.1457	0.34	33.	5.79	0.03	0.62	0.0	6.30	316.	7.45	2000.	500.	17.72	B02
NCMI143	35.9395	82.1767	0.46	52.	0.0	0.07	0.42	0.0	6.14	418.	2.52	2000.	500.	20.30	B02
NCMI144	35.9234	82.1758	0.62	81.	5.79	0.06	0.62	0.0	5.94	371.	2.46	2000.	500.	19.24	B02
NCMI145	35.9275	82.2087	0.38	31.	2.33	0.0	0.51	0.0	7.43	242.	6.30	2000.	500.	15.08	B02
NCMI146	35.9184	82.1558	0.20	42.	9.71	0.03	0.13	0.0	6.15	-463.	5.71	2000.	500.	13.86	B03
NCMI149	35.9102	82.1475	0.18	24.	0.0	0.05	0.11	0.15	6.63	217.	5.74	1900.	500.	18.62	B01
NCMI150	35.9084	82.1510	0.14	15.	8.32	0.07	0.46	0.03	5.83	255.	3.67	2000.	500.	18.19	B01
NCMI152	35.9102	82.1438	0.14	15.	3.31	0.08	0.26	0.08	6.65	224.	2.43	1900.	500.	18.08	B01
NCMI153	35.9134	82.1378	0.22	29.	4.70	0.03	0.19	0.02	6.50	299.	3.16	2000.	500.	16.97	B02
NCMI155	35.9026	82.1479	0.14	12.	0.0	0.03	-0.04	0.01	6.18	-145.	8.19	2000.	1000.	20.32	B01
NCMI156	35.9015	82.1487	0.16	38.	0.0	0.28	0.03	0.0	5.55	372.	4.85	2000.	500.	14.95	B02
NCMI157	35.9009	82.1457	0.08	8.	7.94	0.06	0.03	0.0	5.53	352.	6.43	2000.	1000.	21.95	B02
NCMI158	35.8960	82.1421	0.10	16.	0.0	0.19	0.44	0.0	5.31	364.	9.08	2000.	500.	19.74	B02
NCMI159	35.8967	82.1463	0.18	14.	0.0	0.03	0.30	0.0	6.85	325.	9.82	2000.	1000.	14.70	B02
NCMI160	35.8945	82.1490	0.18	21.	18.95	0.09	0.24	0.0	5.65	240.	2.94	2000.	1000.	18.91	B01

FIELD MEASUREMENT DATA

SITE CODE	LAT	LONG	ALKA	COND	SO4	NO3	PO4	NH3	PH	EH	O2	FILT	RESIN	TEMP	TEAM
NCMI161	35.8938	82.1494	0.18	69.	8.68	0.13	0.08	0.0	5.87	214.	9.03	2000.	1000.	17.28	B01
NCMI166	35.8951	82.1321	0.28	63.	4.70	0.03	-0.03	0.06	6.05	336.	5.00	2000.	500.	15.39	B01
NCMI167	35.8904	82.1845	0.22	25.	9.68	0.07	0.13	0.05	5.61	441.	3.34	2000.	500.	17.66	B01
NCMI168	35.9057	82.1860	0.26	29.	16.36	0.0	0.60	0.02	6.22	252.	4.47	2000.	500.	15.54	B01
NCMI169	35.9086	82.1497	0.56	117.	13.05	0.13	0.34	0.02	6.69	235.	0.04	2000.	500.	19.51	B01
NCMI170	35.9025	82.2135	0.18	43.	0.0	3.30	0.51	0.0	6.16	385.	8.34	1000.	1000.	21.12	B02
NCMI171	35.8826	82.2234	0.90	14.	5.27	0.03	-0.08	0.03	5.90	265.	10.55	2000.	500.	20.60	B03
NCMI172	35.9090	82.2324	0.36	55.	7.55	0.25	0.03	0.04	6.40	224.	9.70	2000.	500.	20.40	B03
NCMI173	35.9149	82.2386	0.30	65.	6.72	0.04	0.01	0.07	6.50	121.	9.09	2000.	500.	19.60	B03
NCMI174	35.9167	82.2485	0.16	25.	12.19	0.07	0.23	0.10	6.36	-457.	7.77	2000.	1000.	17.72	B03
NCMI180	35.9124	82.1880	0.62	19.	4.70	0.01	0.60	0.0	6.39	339.	1.96	0.	0.	18.35	B02
NCMI201	35.9648	82.1374	0.14	35.	5.79	0.05	-0.01	0.02	5.85	289.	7.35	2000.	500.	14.49	B03
NCMI202	35.9621	82.1534	0.46	65.	9.03	0.03	0.03	0.0	5.89	307.	5.88	1250.	500.	16.90	B03
NCMI237	35.9875	82.1823	0.12	23.	13.33	0.43	0.13	0.0	6.32	226.	6.59	2000.	500.	17.30	B01
NCMI301	35.9979	82.1658	0.46	72.	13.89	0.15	0.13	0.0	6.65	540.	5.41	1650.	500.	15.68	B03
NCMI302	35.9780	82.1421	0.54	126.	15.54	0.01	-0.00	0.15	6.84	12.	0.52	2000.	500.	14.93	B01
NCMI303	35.9842	82.1583	0.34	72.	7.55	0.42	-0.05	0.10	6.34	248.	5.17	1500.	500.	13.84	B01
NCMI304	35.9467	82.1364	0.18	58.	12.19	3.07	0.08	0.0	6.11	210.	6.62	2000.	500.	13.30	B01
NCMI305	35.9563	82.1687	0.14	62.	10.36	0.58	-0.01	0.02	6.52	417.	6.32	2000.	500.	16.73	B01
NCMI337	35.9728	82.1761	0.60	68.	0.0	0.21	-0.04	0.0	6.48	296.	3.40	2200.	500.	19.40	B02

TABLE 14

Uranium Content of Stream Bottom Sediment and Water,
The North Harper Study Area, Avery County, North Carolina

Site Code	*ppm U*			*U ppt*
	40-100 Mesh	*100-200 Mesh*	*-200 Mesh*	*Water*
NCCH				
001		8.8	19	89
002		6.3		115
003		9.2	18	110
004		10		
005	4.3	27	94	130
006			30	46
007		10	18	100
008		23	17	
009		8	6	190
010				135
011				87
012				
013				135
014				92
015				66
016				
017				130
018				62
019				71
020				
021				140
022				145
023				6
024				122
025				
026				155
027	3.9	11	10	34
028		34	27	89
029		15		
030		1.7	3.0	55
031		1.7		7
032		2.7	5.7	31
033		7.5		
034		4.1	5.3	190
035		13		14
036		6.0	11	91
037		5.4		50
038		13	21	160

(continued)

TABLE 14, continued

Site Code	*ppm U*			*U ppt*
	40-100 Mesh	*100-200 Mesh*	*-200 Mesh*	*Water*
NCCH				
039		5.7	*	89
040		8.7	20	165
041		3.7		*
042		12	13	115
043		6.7		15
NCCO				
001		3.1	6.4	125
002		8.9		8.8
003		12	20	18
004		6.2		45
005		5.9	15	150
006		11		<
007		56	21	74
008		4.4		52
009		12	12	66
010		25		295
011		65	37	235
012		54		17
NCNE				
001		2.4	5.3	30
002		3.0		35
003		3.6	6.3	
004		4.7		42
005		200	36	42
006		24		7.6
007		63	14	
NCLI				
001		3.7		
NCGL				
001		15	18	4
002		6.0		36
003		9.4	16	26
004		1.7		44
005		10	23	76
006		4.1		36
007		11	19	23
008		7.9		60

* Blanks indicate missing data.

(continued)

TABLE 14, continued

Site Code	*ppm U*			*U ppt*
	40-100 Mesh	*100-200 Mesh*	*-200 Mesh*	*Water*
NCGL				
009		3.4	31	23
010		18		5
011		4	9.8	23
012		28		100
013		8.1	20	13
014		17		7
015		14	45	8
016		13		90
NCGR				
001		2.5	4.1	98
002		6.9		78
003		1.7	3.4	
004		2.1		115
005		5.0	16	75
006		3.5		24
007		15	19	150
008		5.2		96
009		5.0	7.9	96
010		6.5		27
011		8.3	20	300
012	4.5		11	56
013	2.2	4.9		830
014	3.6	3.7	13	43
015		6.8	9.4	50
016	3.1		20	37
017		14	34	105
018			9.3	5
019	2.6	3.2		16
020		6.3	18	9
021		3.2		57
022	1.3	4.1	3.7	19
023			5.3	5
024		2.5	3.7	5
025			12	89
026		4.2	5.2	13
027			7.6	39
028		2.9	3.4	9
029			8.2	120

(continued)

TABLE 14, continued

Site Code	*ppm U*			*U ppt Water*
	40-100 Mesh	*100-200 Mesh*	*-200 Mesh*	
NCGL				
101R				140
102R				39
104R				6
107R				
108R				275
110R				47
111R				250
113R				
114R				555
115R				20
201R				15
NCNE				
101R				16
102R				20
103R				22
104R				
105R				76
106R				15
107R				20

TABLE 15

Uranium Content of Ground Water from the North Harper Study Area, Avery County, NC

Site	*ppt U*
NCCH	
101	2500
104	
106	110
124	90
132	3
136	
142	200
NCLI	
101	17
102	
NCGR	
101	0
102	50
103	44
106	135
108	4
109	740
129	80
228	105

ADDENDUM

TABLE 15

Uranium Content of Ground Water from the North Harper Study Area, Avery County, NC

Site Code	ppt U
NCCO	
101	122
102	100
103	14
104	8
106	96
107	10
108	318
111	17
116	135

TABLE 16. Field Data from the North Harper North Carolina Study Area.

NURE MASTER FILE EDIT

```
SITE     =NCCH001  LATITUDE= 35.9439 LONGITUD= 81.7576 SAMPDATE= 9/30/75 SAMPTIME=1400     TEAMS    =802      DUMMY    =0
PH       = 7.22000 EH       = 282.000 TEMP     = 15.2800 COND     = 19.0000 O2       = 5.44000 SO4      = 4.70018 PO4      = .514894
NO3      = .056256 NH3      =0.000000 ALK      = .120000 FILT     = 2000.00 RESIN    = 500.000 FORMNAME=          FORMAGE  =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 15.0000 STRDEPTH= 3.00000 VELOCITY= 1.50000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET    STRBED   =ERODED   STRLEVEL=HIGH     STRVEG   =FOREST   STRRELIF=MODERATE STRPREC =NONE     STRACT   =
STRACT   =         STRACT   =         STRACT   =         STRACT   =         STRSAMPW=LEFT     STRSAMPS=LEFT     STRCOLOR=
STRWEATH=          STRRAIN  =YES
          ********************************************************************************

SITE     =NCCH002  LATITUDE= 35.9572 LONGITUD= 81.7750 SAMPDATE= 9/30/75 SAMPTIME=1600     TEAMS    =802      DUMMY    =0
PH       = 7.11000 EH       = 314.000 TEMP     = 14.6900 COND     = 16.0000 O2       = 6.56000 SO4      = 7.55108 PO4      = 1.02520
NO3      = .008367 NH3      =0.000000 ALK      = .120000 FILT     = 2000.00 RESIN    = 500.000 FORMNAME=          FORMAGE  =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 9.00000 STRDEPTH= 2.00000 VELOCITY= 1.50000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET    STRBED   =ERODED   STRLEVEL=HIGH     STRVEG   =FOREST   STRRELIF=MODERATE STRPREC =NONE     STRACT   =
STRACT   =         STRACT   =         STRACT   =         STRACT   =         STRSAMPW=         STRSAMPS=RIGHT    STRCOLOR=
STRWEATH=          STRRAIN  =NO
          ********************************************************************************

SITE     =NCCH003  LATITUDE= 35.9706 LONGITUD= 81.7668 SAMPDATE= 9/29/75 SAMPTIME=1530     TEAMS    =802      DUMMY    =0
PH       = 6.81000 EH       = 138.000 TEMP     = 13.1000 COND     = 12.0000 O2       = 6.72000 SO4      = 10.3632 PO4      = .959875
NO3      = .033314 NH3      = .060194 ALK      = .080000 FILT     = 2000.00 RESIN    = 500.000 FORMNAME=          FORMAGE  =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 15.0000 STRDEPTH= 1.50000 VELOCITY= 2.50000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET    STRBED   =DEPOSIT  STRLEVEL=HIGH     STRVEG   =FOREST   STRRELIF=MODERATE STRPREC =NONE     STRACT   =
STRACT   =         STRACT   =         STRACT   =         STRACT   =         STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=          STRRAIN  =NO
          ********************************************************************************

SITE     =NCCH004  LATITUDE= 35.9724 LONGITUD= 81.7663 SAMPDATE= 9/29/75 SAMPTIME=1630     TEAMS    =802      DUMMY    =0
PH       = 6.91000 EH       = 120.000 TEMP     = 14.2900 COND     = 13.0000 O2       = 5.82000 SO4      = 9.37821 PO4      = 2.21126
NO3      = .023898 NH3      = .019653 ALK      = .100000 FILT     = 2000.00 RESIN    = 500.000 FORMNAME=          FORMAGE  =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 27.0000 STRDEPTH= 3.00000 VELOCITY= 3.50000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET    STRBED   =DEPOSIT  STRLEVEL=HIGH     STRVEG   =FOREST   STRRELIF=MODERATE STRPREC =NONE     STRACT   =
STRACT   =         STRACT   =         STRACT   =         STRACT   =         STRSAMPW=LEFT     STRSAMPS=LEFT     STRCOLOR=
STRWEATH=CLOUDY    STRRAIN  =NO
          ********************************************************************************

SITE     =NCCH005  LATITUDE= 35.9763 LONGITUD= 81.7739 SAMPDATE=10/06/75 SAMPTIME=1300     TEAMS    =802      DUMMY    =0
```


NURE MASTER FILE EDIT

```
PH       = 7.05000 EH       = 323.000 TEMP     = 13.5600 COND     = 13.0000 O2       = 5.85000 SO4      = 4.06002 PO4      = .898773
NO3      = .104713 NH3      =0.000000 ALK      = .100000 FILT     = 2000.00 RESIN    = 500.000 FORMNAME=          FORMAGE  =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 25.0000 STRDEPTH= 5.00000 VELOCITY= 2.00000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET    STRBED   =ERODED   STRLEVEL=NORMAL   STRVEG   =FOREST   STRRELIF=MODERATE STRPREC =NONE     STRACT   =
STRACT   =         STRACT   =         STRACT   =         STRACT   =         STRSAMPW=LEFT     STRSAMPS=LEFT     STRCOLOR=
STRWEATH=CLOUDY    STRRAIN  =NO
          ********************************************************************************

SITE     =NCCH006  LATITUDE= 35.9894 LONGITUD= 81.7594 SAMPDATE= 9/29/75 SAMPTIME=1145     TEAMS    =802      DUMMY    =0
PH       = 6.79000 EH       = 149.000 TEMP     = 13.0200 COND     = 21.0000 O2       = 8.05000 SO4      =0.000000 PO4      = .421079
NO3      = .073113 NH3      =0.000000 ALK      = .160000 FILT     = 2000.00 RESIN    = 500.000 FORMNAME=          FORMAGE  =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 10.0000 STRDEPTH= 2.00000 VELOCITY= 3.00000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET    STRBED   =DEPOSIT  STRLEVEL=HIGH     STRVEG   =MODERATE STRRELIF=MODERATE STRPREC =NONE     STRACT   =
STRACT   =         STRACT   =         STRACT   =         STRACT   =         STRSAMPW=         STRSAMPS=RIGHT    STRCOLOR=
STRWEATH=          STRRAIN  =NO
          ********************************************************************************

SITE     =NCCH007  LATITUDE= 35.9908 LONGITUD= 81.7516 SAMPDATE= 9/29/75 SAMPTIME=1345     TEAMS    =802      DUMMY    =0
PH       = 8.60000 EH       = 117.000 TEMP     = 13.3300 COND     = 16.0000 O2       = 7.11000 SO4      = 6.71748 PO4      = .476246
NO3      = .073113 NH3      = .060194 ALK      = .120000 FILT     = 2000.00 RESIN    = 500.000 FORMNAME=          FORMAGE  =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 9.00000 STRDEPTH= .800000 VELOCITY= 2.00000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET    STRBED   =DEPOSIT  STRLEVEL=HIGH     STRVEG   =MODERATE STRRELIF=MODERATE STRPREC =NONE     STRACT   =
STRACT   =         STRACT   =         STRACT   =         STRACT   =         STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=          STRRAIN  =NO
          ********************************************************************************

SITE     =NCCH008  LATITUDE= 35.9831 LONGITUD= 81.7777 SAMPDATE=10/06/75 SAMPTIME=1815     TEAMS    =802      DUMMY    =0
PH       = 8.84000 EH       = 346.000 TEMP     = 14.4500 COND     = 13.0000 O2       = 6.41000 SO4      =0.000000 PO4      = 1.61612
NO3      = .012683 NH3      =0.000000 ALK      = .100000 FILT     = 2000.00 RESIN    = 500.000 FORMNAME=          FORMAGE  =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 25.0000 STRDEPTH= 2.00000 VELOCITY= 1.50000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET    STRBED   =DEPOSIT  STRLEVEL=NORMAL   STRVEG   =FOREST   STRRELIF=MODERATE STRPREC =NONE     STRACT   =
STRACT   =         STRACT   =         STRACT   =         STRACT   =         STRSAMPW=LEFT     STRSAMPS=LEFT     STRCOLOR=
STRWEATH=          STRRAIN  =NO
          ********************************************************************************

SITE     =NCCH009  LATITUDE= 35.9784 LONGITUD= 81.7811 SAMPDATE=10/06/75 SAMPTIME=1515     TEAMS    =802      DUMMY    =0
PH       = 7.04000 EH       = 285.000 TEMP     = 14.4700 COND     = 12.0000 O2       = 6.14000 SO4      =0.000000 PO4      = 1.82738
```

NURE MASTER FILE EDIT

```
NO3     = .073113 NH3     = .049900 ALK     = .080000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 35.0000 STRDEPTH= 2.00000 VELOCITY= 2.00000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =DEPOSIT STRLEVEL=NORMAL  STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=LEFT     STRSAMPS=LEFT     STRCOLOR=
STRWEATH=         STRRAIN =NO
          ********************************************************************************

SITE    =NCCH010  LATITUDE= 35.9774 LONGITUD= 81.7812 SAMPDATE=10/06/75 SAMPTIME=1430     TEAMS   =802      DUMMY   =0
PH      = 6.85000 EH      = 373.000 TEMP    = 13.7700 COND    = 14.0000 O2      = 5.22000 SO4     = 4.70018 PO4     = .736072
NO3     = .023888 NH3     =0.000000 ALK     = .080000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 10.0000 STRDEPTH= 1.50000 VELOCITY= 1.50000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =DEPOSIT STRLEVEL=NORMAL  STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=         STRSAMPS=RIGHT    STRCOLOR=
STRWEATH=         STRRAIN =NO
          ********************************************************************************

SITE    =NCCH011  LATITUDE= 35.9737 LONGITUD= 81.7955 SAMPDATE=10/06/75 SAMPTIME=1600     TEAMS   =802      DUMMY   =0
PH      = 6.88000 EH      = 360.000 TEMP    = 13.9500 COND    = 14.0000 O2      = 6.18000 SO4     =0.000000 PO4     = .898773
NO3     = .017092 NH3     = .039712 ALK     = .100000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 10.0000 STRDEPTH= 2.00000 VELOCITY= 2.00000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =ERODED   STRLEVEL=NORMAL  STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=         STRSAMPS=LEFT     STRCOLOR=
STRWEATH=         STRRAIN =NO
          ********************************************************************************

SITE    =NCCH012  LATITUDE= 35.9864 LONGITUD= 81.7870 SAMPDATE=10/06/75 SAMPTIME=1715     TEAMS   =802      DUMMY   =0
PH      = 6.97000 EH      = 357.000 TEMP    = 14.6300 COND    = 13.0000 O2      = 6.48300 SO4     =0.000000 PO4     = 2.21126
NO3     = .028547 NH3     =0.000000 ALK     = .080000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 30.0000 STRDEPTH= 1.50000 VELOCITY= 1.50000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =DEPOSIT STRLEVEL=NORMAL  STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=LEFT     STRSAMPS=LEFT     STRCOLOR=
STRWEATH=         STRRAIN =NO
          ********************************************************************************

SITE    =NCCH013  LATITUDE= 37.9872 LONGITUD= 81.7947 SAMPDATE=10/07/75 SAMPTIME=1600     TEAMS   =801      DUMMY   =0
PH      = 6.57000 EH      = 272.000 TEMP    = 14.4700 COND    = 8.00000 O2      = 7.83000 SO4     = 4.70018 PO4     =-.014928
NO3     = .017092 NH3     = .039712 ALK     = .080000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
```


NURE MASTER FILE EDIT

```
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 25.0000 STRDEPTH= 3.50000 VELOCITY= 2.00000 STRSHAPE=TRIANG   STRBOTOM=
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL  STRVEG  =FOREST   STRRELIF=HIGH     STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=RIGHT    STRSAMPS=RIGHT    STRCOLOR=
STRWEATH=         STRRAIN =NO
          ********************************************************************************

SITE    =NCCH014  LATITUDE= 35.9861 LONGITUD= 81.7950 SAMPDATE=10/07/75 SAMPTIME=1530     TEAMS   =901      DUMMY   =0
PH      = 6.55000 EH      = 262.000 TEMP    = 14.7200 COND    = 8.00000 O2      = 6.59000 SO4     =0.000000 PO4     = .031264
NO3     = .012683 NH3     =0.000000 ALK     = .060000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 20.0000 STRDEPTH= 4.00000 VELOCITY= 2.00000 STRSHAPE=TRIANG   STRBOTOM=
STRBOTOM=ROCK     STRBED  =         STRLEVEL=DRY       STRVEG  =MODERATE STRRELIF=MODERATE STRPREC =NOTDET   STRACT  =SMELT
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=LEFT     STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=         STRRAIN =NO
          ********************************************************************************

SITE    =NCCH015  LATITUDE= 35.9860 LONGITUD= 81.7994 SAMPDATE=10/06/75 SAMPTIME=1650     TEAMS   =801      DUMMY   =0
PH      = 6.65000 EH      = 228.000 TEMP    = 14.5700 COND    = 10.0000 O2      = 7.78000 SO4     =0.000000 PO4     = .144257
NO3     = .050931 NH3     =0.000000 ALK     = .080000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 8.00000 STRDEPTH= 1.00000 VELOCITY= 3.00000 STRSHAPE=RECT     STRBOTOM=NOTDET
STRBOTOM=NOTDET   STRBED  =DEPOSIT STRLEVEL=NORMAL  STRVEG  =FOREST   STRRELIF=HIGH     STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=LEFT     STRSAMPS=LEFT     STRCOLOR=
STRWEATH=CLOUDY   STRRAIN =NO
          ********************************************************************************

SITE    =NCCH016  LATITUDE= 35.9853 LONGITUD= 81.8041 SAMPDATE=10/06/75 SAMPTIME=1530     TEAMS   =801      DUMMY   =0
PH      = 5.69000 EH      = 217.000 TEMP    = 14.3400 COND    = 9.00000 O2      = 7.76000 SO4     =0.000000 PO4     = .079826
NO3     = .021597 NH3     = .039712 ALK     = .080000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 30.0000 STRDEPTH= .700000 VELOCITY= 2.00000 STRSHAPE=RECT     STRBOTOM=NOTDET
STRBOTOM=NOTDET   STRBED  =ERODED   STRLEVEL=NORMAL  STRVEG  =FOREST   STRRELIF=HIGH     STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=         STRRAIN =NO
          ********************************************************************************

SITE    =NCCH017  LATITUDE= 35.9861 LONGITUD= 81.8039 SAMPDATE=10/06/75 SAMPTIME=1500     TEAMS   =801      DUMMY   =0
PH      = 5.90000 EH      = 220.000 TEMP    = 13.0800 COND    = 13.0000 O2      = 7.93000 SO4     =0.000000 PO4     =0.000000
NO3     =0.000000 NH3     =0.000000 ALK     =0.000000 FILT    =0.000000 RESIN   =0.000000 FORMNAME=          FORMAGE =
ROCKTYPE=
```

NURE MASTER FILE EDIT

```
        =STREAM   BASIN   =0        STRWIDTH= 8.00000 STRDEPTH= .500000 VELOCITY= 1.50000 STRSHAPE=RECT     STRBOTOM=NOTDET
STRBOTOM=NOTDET   STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=HIGH     STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=         STRRAIN =NO
          **********************************************************************


SITE    =NCCH019  LATITUDE= 35.9905 LONGITUD= 81.7996 SAMPDATE=10/07/75 SAMPTIME=1630     TEAMS   =801      DUMMY   =0
PH      = 6.63000 EH      = 273.000 TEMP    = 14.2500 COND    = 8.00000 O2      = 7.83000 SO4     =0.000000 PO4     = .067453
NO3     = .006243 NH3     =0.000000 ALK     = .080000 FILT    = 2150.00 RESIN   = 500.000 FORMNAME=         FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 20.0000 STRDEPTH= 2.00000 VELOCITY= 3.00000 STRSHAPE=TRIANG   STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=HIGH     STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=LEFT     STRSAMPS=LEFT     STRCOLOR=
STRWEATH=         STRRAIN =NO
          **********************************************************************


SITE    =NCCH019  LATITUDE= 35.9986 LONGITUD= 81.8036 SAMPDATE=10/01/75 SAMPTIME=1830     TEAMS   =801      DUMMY   =0
PH      = 6.35000 EH      = 606.000 TEMP    = 14.2200 COND    = 9.00000 O2      = 7.52000 SO4     =0.000000 PO4     =-.080247
NO3     = .014876 NH3     = .091749 ALK     = .060000 FILT    = 2100.00 RESIN   = 500.000 FORMNAME=         FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 35.0000 STRDEPTH= 2.00000 VELOCITY= 2.00000 STRSHAPE=RECT     STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=HIGH     STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=LEFT     STRSAMPS=LEFT     STRCOLOR=
STRWEATH=LIGHT    STRRAIN =NO
          **********************************************************************


SITE    =NCCH020  LATITUDE= 35.9807 LONGITUD= 81.8103 SAMPDATE=10/06/75 SAMPTIME=1200     TEAMS   =801      DUMMY   =0
PH      = 5.60000 EH      = 245.000 TEMP    = 14.0600 COND    = 9.00000 O2      = 7.73000 SO4     = 4.70018 PO4     =-.037205
NO3     = .021597 NH3     =0.000000 ALK     = .060000 FILT    = 750.000 RESIN   = 350.000 FORMNAME=         FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 15.0000 STRDEPTH= 2.50000 VELOCITY= 1.50000 STRSHAPE=RECT     STRBOTOM=NOTDET
STRBOTOM=NOTDET   STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=HIGH     STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=CLOUDY   STRRAIN =YES
          **********************************************************************


SITE    =NCCH021  LATITUDE= 35.9799 LONGITUD= 81.9155 SAMPDATE=10/01/75 SAMPTIME=1330     TEAMS   =803      DUMMY   =0
PH      = 6.50000 EH      = 230.000 TEMP    = 14.6300 COND    = 6.00000 O2      = 6.54000 SO4     =0.000000 PO4     =-.026132
NO3     = .056256 NH3     = .019653 ALK     = .060000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=         FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 12.0000 STRDEPTH= 1.00000 VELOCITY= 1.20000 STRSHAPE=CHANN    STRBOTOM=NOTDET
```


NURE MASTER FILE EDIT

```
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=LEFT     STRSAMPS=         STRCOLOR=BROWNT
STRWEATH=CLOUDY   STRRAIN =NO
          **********************************************************************


SITE    =NCCH022  LATITUDE= 35.9794 LONGITUD= 81.8162 SAMPDATE=10/07/75 SAMPTIME=1400     TEAMS   =803      DUMMY   =0
PH      = 5.97000 EH      = 120.000 TEMP    = 15.7500 COND    = 8.00000 O2      = 9.40000 SO4     =0.000000 PO4     = .021264
NO3     = .012583 NH3     = .039712 ALK     = .080000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=         FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 3.00000 STRDEPTH= .500000 VELOCITY= 1.00000 STRSHAPE=CHANN    STRBOTOM=NOTDET
STRBOTOM=SANDGRAV STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=CLOUDY   STRRAIN =NO
          **********************************************************************


SITE    =NCCH023  LATITUDE= 35.9817 LONGITUD= 81.8222 SAMPDATE=10/07/75 SAMPTIME=1710     TEAMS   =803      DUMMY   =0
PH      =0.000000 EH      =0.000000 TEMP    =0.000000 COND    =0.000000 O2      =0.000000 SO4     = 3.30650 PO4     =-.048151
NO3     = .028547 NH3     = .049900 ALK     = .060000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=         FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 18.0000 STRDEPTH= .800000 VELOCITY= 1.30000 STRSHAPE=RECT     STRBOTOM=NOTDET
STRBOTOM=NOTDET   STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=RIGHT    STRSAMPS=RIGHT    STRCOLOR=GREEN
STRWEATH=CLOUDY   STRRAIN =NO
          **********************************************************************


SITE    =NCCH024  LATITUDE= 35.9823 LONGITUD= 81.8268 SAMPDATE=10/01/75 SAMPTIME=1545     TEAMS   =803      DUMMY   =0
PH      =0.000000 EH      =0.000000 TEMP    =0.000000 COND    =0.000000 O2      =0.000000 SO4     = 4.70018 PO4     =-.131436
NO3     = .004141 NH3     = .217079 ALK     = .060000 FILT    = 1850.00 RESIN   = 500.000 FORMNAME=         FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 12.0000 STRDEPTH= 2.00000 VELOCITY= 1.00000 STRSHAPE=RECT     STRBOTOM=CLAY
STRBOTOM=NOTDET   STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=MODERATE STRRAIN =YES
          **********************************************************************


SITE    =NCCH025  LATITUDE= 35.9828 LONGITUD= 81.8273 SAMPDATE=10/01/75 SAMPTIME=1545     TEAMS   =803      DUMMY   =0
PH      =0.000000 EH      =0.000000 TEMP    =0.000000 COND    =0.000000 O2      =0.000000 SO4     = 11.5957 PO4     =-.180000
NO3     = .012683 NH3     = .039712 ALK     = .080000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=         FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 3.00000 STRDEPTH= .200000 VELOCITY= 1.00000 STRSHAPE=RECT     STRBOTOM=NOTDET
STRBOTOM=NOTDET   STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =RED      STRACT  =
```

NURE MASTER FILE EDIT

```
STRACT  =          STRACT  =          STRACT  =          STRACT  =          STRSAMP4=          STRSAMP5=          STRCOLOR=
STRWEATH=MODERATE STRRAIN =YES
        ********************************************************************************


SITE    =NCCH026  LATITUDE= 35.9766 LONGITUD= 81.8382 SAMPDATE=10/09/75 SAMPTIME=1730     TEAMS   =803      DUMMY   =0
PH      = 7.86000 EH      = 357.000 TEMP    = 15.3400 COND    = 124.000 O2      = 8.02000 SO4     = 7.55108 PO4     = .157687
NO3     = .021597 NH3     = .039712 ALK     = .100000 FILT    = 1850.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 5.00000 STRDEPTH= .800000 VELOCITY= 2.00000 STRSHAPE=RECT     STRBOTOM=NOTDET
STRBOTOM=NOTDET   STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=          STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=         STRRAIN =YES
        ********************************************************************************


SITE    =NCCH027  LATITUDE= 35.9997 LONGITUD= 81.8239 SAMPDATE=10/09/75 SAMPTIME=1300     TEAMS   =803      DUMMY   =0
PH      = 7.02000 EH      = 335.000 TEMP    = 14.3400 COND    = 64.0000 O2      = 7.69300 SO4     = 10.3632 PO4     =-.080247
NO3     = .035760 NH3     =0.000000 ALK     = .060000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 18.0000 STRDEPTH= 1.50000 VELOCITY= 2.00000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=          STRSAMPS=         STRCOLOR=
STRWEATH=         STRRAIN =YES
        ********************************************************************************


SITE    =NCCH028  LATITUDE= 35.9993 LONGITUD= 81.8313 SAMPDATE=10/09/75 SAMPTIME=1145     TEAMS   =802      DUMMY   =0
PH      = 6.87000 EH      = 354.000 TEMP    = 13.4700 COND    = 30.0000 O2      = 7.36000 SO4     = 5.26868 PO4     =-.026132
NO3     = .012683 NH3     = .081116 ALK     = .060000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 9.00000 STRDEPTH= 1.00000 VELOCITY= 1.00000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=          STRSAMPS=LEFT     STRCOLOR=
STRWEATH=         STRRAIN =YES
        ********************************************************************************


SITE    =NCCH029  LATITUDE= 35.9938 LONGITUD= 81.8407 SAMPDATE=10/01/75 SAMPTIME=1120     TEAMS   =803      DUMMY   =0
PH      = 6.38000 EH      = 231.000 TEMP    = 13.5400 COND    = 5.00000 O2      = 6.14000 SO4     =0.000000 PO4     =-.141351
NO3     = .030917 NH3     =0.000000 ALK     = .040000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 6.00000 STRDEPTH= .400000 VELOCITY= .500000 STRSHAPE=RECT     STRBOTOM=NOTDET
STRBOTOM=NOTDET   STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=          STRSAMPS=         STRCOLOR=
```


NURE MASTER FILE EDIT

```
STRWEATH=CLOUDY   STRRAIN =NO
        ********************************************************************************


SITE    =NCCH030  LATITUDE= 35.9864 LONGITUD= 81.8584 SAMPDATE=10/09/75 SAMPTIME=1445     TEAMS   =802      DUMMY   =0
PH      = 6.34000 EH      = 281.000 TEMP    = 12.0400 COND    = 12.0000 O2      = 7.50000 SO4     = 5.26868 PO4     = .079826
NO3     = .045741 NH3     =0.000000 ALK     = .060000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 6.00000 STRDEPTH= .400000 VELOCITY= 1.70000 STRSHAPE=RECT     STRBOTOM=NOTDET
STRBOTOM=NOTDET   STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=          STRSAMPS=         STRCOLOR=
STRWEATH=         STRRAIN =YES
        ********************************************************************************


SITE    =NCCH031  LATITUDE= 35.9598 LONGITUD= 81.8698 SAMPDATE=10/09/75 SAMPTIME=1800     TEAMS   =801      DUMMY   =0
PH      =0.000000 EH      =0.000000 TEMP    =0.000000 COND    =0.000000 O2      =0.000000 SO4     =0.000000 PO4     =0.000000
NO3     =0.000000 NH3     =0.000000 ALK     = .080000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 10.0000 STRDEPTH= 1.00000 VELOCITY= 2.00000 STRSHAPE=RECT     STRBOTOM=NOTDET
STRBOTOM=NOTDET   STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=HIGH     STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=          STRSAMPS=LEFT     STRCOLOR=
STRWEATH=         STRRAIN =YES
        ********************************************************************************


SITE    =NCCH032  LATITUDE= 35.9559 LONGITUD= 81.8743 SAMPDATE=10/09/75 SAMPTIME=1730     TEAMS   =801      DUMMY   =0
PH      =0.000000 EH      =0.000000 TEMP    =0.000000 COND    =0.000000 O2      =0.000000 SO4     =0.000000 PO4     =0.000000
NO3     =0.000000 NH3     =0.000000 ALK     = .080000 FILT    = 1750.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 15.0000 STRDEPTH= 2.00000 VELOCITY= 3.00000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=HIGH     STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=          STRSAMPS=         STRCOLOR=
STRWEATH=         STRRAIN =
        ********************************************************************************


SITE    =NCCH033  LATITUDE= 35.9593 LONGITUD= 81.8338 SAMPDATE=10/09/75 SAMPTIME=1300     TEAMS   =801      DUMMY   =0
PH      =0.000000 EH      =0.000000 TEMP    =0.000000 COND    =0.000000 O2      =0.000000 SO4     =0.000000 PO4     =0.000000
NO3     =0.000000 NH3     =0.000000 ALK     = .120000 FILT    = 2100.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 25.0000 STRDEPTH= 2.00000 VELOCITY= 2.00000 STRSHAPE=TRIANG   STRBOTOM=NOTDET
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=HIGH     STRVEG  =FOREST   STRRELIF=HIGH     STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=RIGHT     STRSAMPS=RIGHT    STRCOLOR=BROWNT
STRWEATH=         STRRAIN =YES
```

NURE MASTER FILE EDIT

```
**********************************************************************

SITE    =NCCH034  LATITUDE= 35.9380 LONGITUD= 81.8145 SAMPDATE=10/09/75 SAMPTIME=1015     TEAMS   =801      DUMMY   =0
PH      =0.000000 EH      =0.000000 TEMP    =0.000000 COND    =0.000000 O2      =0.000000 SO4     =0.000000 PO4     =0.000000
NO3     =0.000000 NH3     =0.000000 ALK     = .120000 FILT    = 2050.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 30.0000 STRDEPTH= 4.00000 VELOCITY= 3.00000 STRSHAPE=TRIANG   STRBOTOM=SAND
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=HIGH     STRVEG  =FOREST   STRRELIF=HIGH     STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=LEFT     STRSAMPS=LEFT     STRCOLOR=BROWNT
STRWEATH=         STRRAIN =YES
**********************************************************************

SITE    =NCCH035  LATITUDE= 35.9211 LONGITUD= 81.7920 SAMPDATE= 9/30/75 SAMPTIME=1730     TEAMS   =802      DUMMY   =0
PH      = 7.75000 EH      = 535.000 TEMP    = 16.0800 COND    = 30.0000 O2      = 4.27000 SO4     = 7.55108 PO4     = 1.34375
NO3     = .035740 NH3     =0.000000 ALK     = .220000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 9.00000 STRDEPTH= 1.00000 VELOCITY= 2.00000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =DEPOSIT  STRLEVEL=HIGH     STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=         STRSAMPS=LEFT     STRCOLOR=
STRWEATH=         STRRAIN =NO
**********************************************************************

SITE    =NCCH036  LATITUDE= 35.9202 LONGITUD= 81.7927 SAMPDATE= 9/30/75 SAMPTIME=1815     TEAMS   =802      DUMMY   =0
PH      = 7.42000 EH      = 534.000 TEMP    = 16.4300 COND    = 19.0000 O2      = 5.82000 SO4     = 9.71364 PO4     = .959875
NO3     = .043195 NH3     = .113368 ALK     = .100000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 38.0000 STRDEPTH= 2.50000 VELOCITY= 1.50000 STRSHAPE=RECT     STRBOTOM=SAND
STRBOTOM=ROCK     STRBED  =DEPOSIT  STRLEVEL=HIGH     STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=LEFT     STRSAMPS=LEFT     STRCOLOR=BROWNT
STRWEATH=         STRRAIN =NO
**********************************************************************

SITE    =NCCH037  LATITUDE= 35.9015 LONGITUD= 81.7945 SAMPDATE=10/09/75 SAMPTIME=1200     TEAMS   =802      DUMMY   =0
PH      = 5.68000 EH      = 275.000 TEMP    = 14.6000 COND    = 27.0000 O2      = 7.79000 SO4     =0.000000 PO4     = .227850
NO3     = .064511 NH3     = .158102 ALK     = .100000 FILT    = 1800.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 40.0000 STRDEPTH= 1.00000 VELOCITY= 1.00000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=RIGHT    STRSAMPS=RIGHT    STRCOLOR=BROWNT
STRWEATH=         STRRAIN =YES
**********************************************************************
```


NURE MASTER FILE EDIT

```
SITE    =NCCH038  LATITUDE= 35.8811 LONGITUD= 81.8019 SAMPDATE=10/05/75 SAMPTIME=1200     TEAMS   =802      DUMMY   =0
PH      = 6.89000 EH      = 222.000 TEMP    = 12.2600 COND    = 14.0000 O2      = 7.48000 SO4     =0.000000 PO4     = .687510
NO3     = .058971 NH3     = .102498 ALK     = .100000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 32.0000 STRDEPTH= 5.00000 VELOCITY= 1.50000 STRSHAPE=RECT     STRBOTOM=SAND
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=LEFT     STRSAMPS=LEFT     STRCOLOR=
STRWEATH=CLOUDY   STRRAIN =NO
**********************************************************************

SITE    =NCCH039  LATITUDE= 35.8992 LONGITUD= 81.8177 SAMPDATE= 9/30/75 SAMPTIME=1200     TEAMS   =803      DUMMY   =0
PH      = 6.12000 EH      = 283.000 TEMP    = 14.6500 COND    = 8.00000 O2      = 7.75000 SO4     =0.000000 PO4     =-.131436
NO3     = .030917 NH3     = .039712 ALK     = .060000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 22.0000 STRDEPTH= 1.70000 VELOCITY= 1.50000 STRSHAPE=RECT     STRBOTOM=NOTDET
STRBOTOM=NOTDET   STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=LEFT     STRSAMPS=         STRCOLOR=
STRWEATH=         STRRAIN =NO
**********************************************************************

SITE    =NCCH040  LATITUDE= 35.9000 LONGITUD= 81.8172 SAMPDATE= 9/30/75 SAMPTIME=1430     TEAMS   =803      DUMMY   =0
PH      = 5.87000 EH      = 267.000 TEMP    = 15.6400 COND    = 13.0000 O2      = 6.94000 SO4     = 4.70018 PO4     =-.160873
NO3     = .040680 NH3     = .060194 ALK     = .100000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 10.0000 STRDEPTH= .700000 VELOCITY= 1.30000 STRSHAPE=RECT     STRBOTOM=NOTDET
STRBOTOM=NOTDET   STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=         STRRAIN =NO
**********************************************************************

SITE    =NCCH041  LATITUDE= 35.9138 LONGITUD= 81.8431 SAMPDATE= 9/30/75 SAMPTIME=1530     TEAMS   =803      DUMMY   =0
PH      = 6.37000 EH      = 300.000 TEMP    = 14.7100 COND    = 5.00000 O2      = 7.56000 SO4     =0.000000 PO4     =-.160873
NO3     = .004141 NH3     = .081116 ALK     = .040000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 10.0000 STRDEPTH= .600000 VELOCITY= 2.50000 STRSHAPE=RECT     STRBOTOM=NOTDET
STRBOTOM=NOTDET   STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=         STRRAIN =NO
**********************************************************************

SITE    =NCCH042  LATITUDE= 35.9146 LONGITUD= 81.8426 SAMPDATE= 9/30/75 SAMPTIME=1630     TEAMS   =803      DUMMY   =0
```

NURE MASTER FILE EDIT

```
PH      = 6.74000 EH      = 274.000 TEMP    = 15.5200 COND    = 7.00000 O2      = 6.68000 SO4     = 5.78668 PO4     =-.101056
NO3     = .004141 NH3     =0.000000 ALK     = .040000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 13.0000 STRDEPTH= 3.00000 VELOCITY= 1.80000 STRSHAPE=RECT     STRBOTOM=NOTDET
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=         STRRAIN =NO
          **********************************************************************


SITE    =NCCH043  LATITUDE= 35.9812 LONGITUD= 81.8185 SAMPDATE=10/01/75 SAMPTIME=1410     TEAMS   =803      DUMMY   =0
PH      = 5.87000 EH      = 190.000 TEMP    = 14.6000 COND    = 12.0000 O2      = 9.02000 SO4     =0.000000 PO4     =-.111293
NO3     = .026204 NH3     =0.000000 ALK     = .100000 FILT    = 1450.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 1.00000 STRDEPTH= .100000 VELOCITY= 1.00000 STRSHAPE=RECT     STRBOTOM=NOTDET
STRBOTOM=NOTDET   STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=LIGHT    STRRAIN =YES
          **********************************************************************


SITE    =NCCH101  LATITUDE= 35.9509 LONGITUD= 81.7626 SAMPDATE= 9/30/75 SAMPTIME=1500     TEAMS   =802      DUMMY   =0
PH      = 5.96000 EH      = 266.000 TEMP    = 15.9100 COND    = 42.0000 O2      = 7.48000 SO4     =0.000000 PO4     = .476246
NO3     = .082092 NH3     = .124358 ALK     = .280000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =DRILLED
WELCASE =         WELCLAS =PRIVATE  WELPOINT=OTHER    WELPIPE =         WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =         WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =RESID    WELFREQ =CONSTANT
          **********************************************************************


SITE    =NCCH104  LATITUDE= 35.9728 LONGITUD= 81.7660 SAMPDATE= 9/29/75 SAMPTIME=1715     TEAMS   =802      DUMMY   =0
PH      = 5.90000 EH      = 178.000 TEMP    = 15.8600 COND    = 21.0000 O2      = 2.36000 SO4     = 4.70018 PO4     = .687510
NO3     = .045741 NH3     =0.000000 ALK     = .160000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =
WELCASE =         WELCLAS =OTHER    WELPOINT=WELL     WELPIPE =         WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =OTHER    WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =NONE     WELFREQ =
          **********************************************************************


SITE    =NCCH106  LATITUDE= 35.9900 LONGITUD= 81.7592 SAMPDATE= 9/29/75 SAMPTIME=1230     TEAMS   =802      DUMMY   =0
PH      = 5.97000 EH      = 102.000 TEMP    = 16.7600 COND    = 17.0000 O2      = 2.66000 SO4     = 4.70018 PO4     = .736072
```


NURE MASTER FILE EDIT

```
NO3     = .058971 NH3     = .060194 ALK     = .120000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =10       WELTYPE =
WELCASE =         WELCLAS =SEMIPRIV WELPOINT=OTHER    WELPIPE =GALV     WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =RESID    WELFREQ =CONSTANT
          **********************************************************************


SITE    =NCCH124  LATITUDE= 35.9828 LONGITUD= 81.8238 SAMPDATE=10/01/75 SAMPTIME=1734     TEAMS   =803      DUMMY   =0
PH      =0.000000 EH      =0.000000 TEMP    =0.000000 COND    =0.000000 O2      =0.000000 SO4     =0.000000 PO4     = .031264
NO3     = .040680 NH3     = .049900 ALK     = .080000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =
WELCASE =         WELCLAS =         WELPOINT=WELL     WELPIPE =         WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=         WELUSE  =         WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =         WELFREQ =
          **********************************************************************


SITE    =NCCH132  LATITUDE= 35.9541 LONGITUD= 81.8703 SAMPDATE=10/08/75 SAMPTIME=1120     TEAMS   =803      DUMMY   =0
PH      = 7.12000 EH      =-100.000 TEMP    = 14.0400 COND    = 23.0000 O2      = 3.60000 SO4     = 2.33219 PO4     =-.058972
NO3     = .017097 NH3     = .039712 ALK     = .260000 FILT    = 1900.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =
WELCASE =         WELCLAS =PRIVATE  WELPOINT=OTHER    WELPIPE =GALV     WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=         WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =RESID    WELFREQ =CONSTANT
          **********************************************************************


SITE    =NCCH136  LATITUDE= 35.9244 LONGITUD= 81.8154 SAMPDATE=10/08/75 SAMPTIME=1315     TEAMS   =803      DUMMY   =0
PH      =0.000000 EH      =0.000000 TEMP    =0.000000 COND    =0.000000 O2      =0.000000 SO4     = 8.31741 PO4     = .303632
NO3     = .094711 NH3     = .060194 ALK     = .140000 FILT    = 1900.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =
WELCASE =         WELCLAS =         WELPOINT=WELL     WELPIPE =         WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =         WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =         WELFREQ =
          **********************************************************************


SITE    =NCCH142  LATITUDE= 35.9136 LONGITUD= 81.8407 SAMPDATE= 9/30/75 SAMPTIME=1730     TEAMS   =803      DUMMY   =0
PH      = 6.65000 EH      = 201.000 TEMP    = 15.9200 COND    = 14.0000 O2      =0.000000 SO4     =0.000000 PO4     =-.080247
NO3     = .004141 NH3     = .019653 ALK     = .080000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
```

NURE MASTER FILE EDIT

```
ROCKTYPE=

        =GROUND   WELOR   =SPRING   WELDEPTH=0          WELSCREN=0          WELAGE  =0          WELAGEP =0          WELTYPE =
WELCASE =         WELCLAS =          WELPOINT=WELL      WELPIPE =           WELPIPE =           WELTREAT=           WELTREAT=
WELTREAT=         WELUSE  =          WELAPPER=CLEAR     WELODOR =NONE       WELACT  =           WELACT  =           WELACT  =
WELACT  =         WELACT  =NONE      WELFREQ =
          **********************************************************************


SITE    =NCCL001  LATITUDE= 35.3351 LONGITUD= 81.5791 SAMPDATE=10/07/75 SAMPTIME=910      TEAMS   =K01      DUMMY   =0
PH      = 7.50000 EH      = 110.000 TEMP    = 15.6900 COND    = 42.0000 O2      = 7.41000 SO4     = 40.5936 PO4     = .368950
NO3     = .045741 NH3     = .102498 ALK     = .140000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 8.00000 STRDEPTH= 1.00000 VELOCITY= 1.00000 STRSHAPE=TRAP     STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=CLOUDY   STRRAIN =NO
          **********************************************************************


SITE    =NCCL002  LATITUDE= 35.3498 LONGITUD= 81.5335 SAMPDATE= 9/27/75 SAMPTIME=1040     TEAMS   =K01      DUMMY   =0
PH      = 7.11000 EH      = 189.000 TEMP    = 14.4500 COND    = 45.0000 O2      = 7.69000 SO4     = 30.8544 PO4     = .257438
NO3     = .045741 NH3     = .113368 ALK     = .200000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 25.0000 STRDEPTH= 2.00000 VELOCITY= 1.00000 STRSHAPE=TRAP     STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=         STRRAIN =NO
          **********************************************************************


SITE    =NCCL003  LATITUDE= 35.3333 LONGITUD= 81.5214 SAMPDATE= 9/27/75 SAMPTIME=850      TEAMS   =K01      DUMMY   =0
PH      = 6.90000 EH      = 155.000 TEMP    = 14.7500 COND    = 53.0000 O2      = 7.67000 SO4     = 37.6546 PO4     = .736072
NO3     = .021597 NH3     = .146725 ALK     = .220000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 10.0000 STRDEPTH= 1.00000 VELOCITY= 1.00000 STRSHAPE=CHANN    STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=         STRRAIN =NO
          **********************************************************************


SITE    =NCCL004  LATITUDE= 35.3392 LONGITUD= 81.4900 SAMPDATE= 9/27/75 SAMPTIME=1535     TEAMS   =K01      DUMMY   =0
PH      = 6.51000 EH      = 147.000 TEMP    = 18.1000 COND    = 54.0000 O2      = 7.49000 SO4     = 25.3696 PO4     = .403383
NO3     = .073113 NH3     =0.000000 ALK     = .240000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=           FORMAGE =
ROCKTYPE=
```


NURE MASTER FILE EDIT

```
        =STREAM   BASIN   =0        STRWIDTH= 20.0000 STRDEPTH= 1.00000 VELOCITY= 1.00000 STRSHAPE=CHANN    STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=CLOUDY   STRRAIN =NO
          **********************************************************************


SITE    =NCCL005  LATITUDE= 35.3439 LONGITUD= 81.4744 SAMPDATE= 9/29/75 SAMPTIME=1710     TEAMS   =K01      DUMMY   =0
PH      = 6.71000 EH      = 190.000 TEMP    = 16.5200 COND    = 36.0000 O2      = 7.23000 SO4     = 29.6239 PO4     = .303632
NO3     = .082092 NH3     =0.000000 ALK     = .140000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 26.0000 STRDEPTH= 3.00000 VELOCITY= 1.00000 STRSHAPE=CHANN    STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=CLOUDY   STRRAIN =NO
          **********************************************************************


SITE    =NCCL006  LATITUDE= 35.3404 LONGITUD= 81.4288 SAMPDATE= 9/30/75 SAMPTIME=1640     TEAMS   =K01      DUMMY   =0
PH      = 6.56000 EH      = 255.000 TEMP    = 18.6600 COND    = 65.0000 O2      = 7.56000 SO4     = 38.5848 PO4     = .711479
NO3     = .030917 NH3     = .039712 ALK     = .260000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 12.0000 STRDEPTH= 2.00000 VELOCITY= 1.00000 STRSHAPE=CHANN    STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=         STRRAIN =NO
          **********************************************************************


SITE    =NCCL007  LATITUDE= 35.3380 LONGITUD= 81.4117 SAMPDATE=10/01/75 SAMPTIME=815      TEAMS   =K01      DUMMY   =0
PH      = 6.98000 EH      = 227.000 TEMP    = 16.0600 COND    = 60.0000 O2      = 6.57000 SO4     = 22.7050 PO4     = .928833
NO3     = .035740 NH3     = .135470 ALK     = .220000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 46.0000 STRDEPTH= 4.00000 VELOCITY= 2.00000 STRSHAPE=CHANN    STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =GREEN    STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=CLOUDY   STRRAIN =NO
          **********************************************************************


SITE    =NCCL008  LATITUDE= 35.3486 LONGITUD= 81.3903 SAMPDATE=10/01/75 SAMPTIME=0        TEAMS   =K01      DUMMY   =0
PH      = 5.91000 EH      = 226.000 TEMP    = 16.2200 COND    = 41.0000 O2      = 7.35000 SO4     = 32.1698 PO4     = 1.13249
NO3     = .045741 NH3     = .124358 ALK     = .160000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 21.0000 STRDEPTH= 2.00000 VELOCITY= 1.00000 STRSHAPE=CHANN    STRBOTOM=SANDGRAV
```

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```
STRBOTOM=ROCK     STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=GENTLE   STRPREC =GREEN    STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM      STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=CLOUDY   STRRAIN =NO
          ************************************************************************

SITE     =NCCL009 LATITUDE= 35.3768 LONGITUD= 81.5734 SAMPDATE=10/07/75 SAMPTIME=1540     TEAMS   =K01      DUMMY   =0
PH       = 7.10000 EH      = 172.000 TEMP    = 17.4500 COND    = 31.0000 O2      = 8.06000 SO4     = 32.1698 PO4     = .787261
NO3      = .079056 NH3     = .217C79 ALK     = .080000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

         =STREAM   BASIN   =0        STRWIDTH= 20.0000 STRDEPTH= 2.00000 VELOCITY= 1.00000 STRSHAPE=CHANN    STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM      STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=CLOUDY   STRRAIN =NO
          ************************************************************************

SITE     =NCCL010 LATITUDE= 35.3697 LONGITUD= 81.5570 SAMPDATE=10/07/75 SAMPTIME=1030     TEAMS   =K01      DUMMY   =0
PH       = 6.70000 EH      = 138.000 TEMP    = 15.8100 COND    = 39.0000 O2      = 8.54000 SO4     = 48.3239 PO4     = .736072
NO3      = .061722 NH3     = .019653 ALK     = .120000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

         =STREAM   BASIN   =0        STRWIDTH= 26.0000 STRDEPTH= 2.00000 VELOCITY= 1.00000 STRSHAPE=TRAP     STRBOTOM=
STRBOTOM=SANDGRAV STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM      STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=CLOUDY   STRRAIN =NO
          ************************************************************************

SITE     =NCCL011 LATITUDE= 35.3592 LONGITUD= 81.5242 SAMPDATE= 9/27/75 SAMPTIME=1305     TEAMS   =K01      DUMMY   =0
PH       = 7.02000 EH      = 285.000 TEMP    = 16.9600 COND    = 52.0000 O2      = 7.64000 SO4     = 29.0372 PO4     = .597273
NO3      = .053576 NH3     = .124358 ALK     = .200000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

         =STREAM   BASIN   =0        STRWIDTH= 6.00000 STRDEPTH= 1.00000 VELOCITY= 1.00000 STRSHAPE=TRIANG   STRBOTOM=NOTDET
STRBOTOM=SAND     STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=GENTLE   STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM      STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=         STRRAIN =NO
          ************************************************************************

SITE     =NCCL012 LATITUDE= 35.3732 LONGITUD= 81.4815 SAMPDATE= 9/30/75 SAMPTIME=910      TEAMS   =K01      DUMMY   =0
PH       = 7.18000 EH      = 206.000 TEMP    = 15.4900 COND    = 42.0000 O2      = 7.55000 SO4     = 29.6239 PO4     = .335727
NO3      = .040680 NH3     = .146725 ALK     = .160000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

         =STREAM   BASIN   =0        STRWIDTH= 46.0000 STRDEPTH= 4.00000 VELOCITY= 1.00000 STRSHAPE=CHANN    STRBOTOM=NOTDET
STRBOTOM=SANDGRAV STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=FLAT     STRPREC =         STRACT  =
```


NURE MASTER FILE EDIT

```
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM      STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=BROWNT
STRWEATH=         STRRAIN =NO
          ************************************************************************

SITE     =NCCL013 LATITUDE= 35.3633 LONGITUD= 81.4736 SAMPDATE= 9/27/75 SAMPTIME=1815     TEAMS   =K01      DUMMY   =0
PH       = 7.06000 EH      = 223.000 TEMP    = 16.7800 COND    = 38.0000 O2      = 7.38000 SO4     = 29.6239 PO4     = .439114
NO3      = .085175 NH3     = .102498 ALK     = .100000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

         =STREAM   BASIN   =0        STRWIDTH= 24.0000 STRDEPTH= 3.00000 VELOCITY= 1.00000 STRSHAPE=CHANN    STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =GREEN    STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM      STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=CLOUDY   STRRAIN =NO
          ************************************************************************

SITE     =NCCL014 LATITUDE= 35.3586 LONGITUD= 81.4366 SAMPDATE= 9/30/75 SAMPTIME=1250     TEAMS   =K01      DUMMY   =0
PH       = 7.21000 EH      = 176.000 TEMP    = 17.9900 COND    = 45.0000 O2      = 7.64000 SO4     = 35.1087 PO4     = 1.34375
NO3      = .026204 NH3     =0.000000 ALK     = .220000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

         =STREAM   BASIN   =0        STRWIDTH= 15.0000 STRDEPTH= 1.00000 VELOCITY= 2.00000 STRSHAPE=CHANN    STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=GENTLE   STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM      STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=         STRRAIN =NO
          ************************************************************************

SITE     =NCCL015 LATITUDE= 35.3680 LONGITUD= 81.4145 SAMPDATE= 9/30/75 SAMPTIME=1445     TEAMS   =K01      DUMMY   =0
PH       = 6.75000 EH      = 199.000 TEMP    = 18.3000 COND    = 42.0000 O2      = 7.97000 SO4     = 33.5827 PO4     = .514894
NO3      = .017092 NH3     =0.000000 ALK     = .160000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

         =STREAM   BASIN   =0        STRWIDTH= 14.0000 STRDEPTH= 2.00000 VELOCITY= 2.00000 STRSHAPE=CHANN    STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM      STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=         STRRAIN =NO
          ************************************************************************

SITE     =NCCL016 LATITUDE= 35.3826 LONGITUD= 81.5641 SAMPDATE=10/07/75 SAMPTIME=1400     TEAMS   =K01      DUMMY   =0
PH       = 6.64000 EH      = 148.000 TEMP    = 17.5300 COND    = 43.0000 O2      = 8.43000 SO4     = 41.6833 PO4     = .368950
NO3      = .067339 NH3     = .039712 ALK     = .140000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

         =STREAM   BASIN   =0        STRWIDTH= 3.00000 STRDEPTH= 1.00000 VELOCITY= 1.00000 STRSHAPE=         STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=GENTLE   STRPREC =GREEN    STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM      STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=
```

NURE MASTER FILE EDIT

STRWEATH=CLOUDY STRRAIN =NO
****

SITE =NCCL017 LATITUDE= 35.3838 LONGITUD= 81.5163 SAMPDATE=10/04/75 SAMPTIME=1410 TEAMS =K01 DUMMY =0
PH = 5.20000 EH = 57.0000 TEMP = 14.6100 COND = 38.0300 O2 = 8.20000 SO4 = 29.0372 PO4 = .841376
NO3 = .045741 NH3 = .091749 ALK = .140000 FILT = 2000.00 RESIN = 1000.00 FORMNAME= FORMAGE =
ROCKTYPE=

=STREAM BASIN =0 STRWIDTH= 12.0000 STRDEPTH= 2.00000 VELOCITY= 1.00000 STRSHAPE=TRAP STRBOTOM=SANDGRAV
STRBOTOM=ROCK STRBED =ERODED STRLEVEL=NORMAL STRVEG =MODERATE STRRELIF=GENTLE STRPREC =NONE STRACT =
STRACT = STRACT = STRACT = STRACT =FARM STRSAMPW= STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH= STRRAIN =NO
****

SITE =NCCL018 LATITUDE= 35.3944 LONGITUD= 81.5207 SAMPDATE=10/03/75 SAMPTIME=1715 TEAMS =K01 DUMMY =0
PH = 4.45000 EH = 211.000 TEMP = 14.5200 COND = 44.0000 O2 = 7.85000 SO4 = 11.5957 PO4 = 1.25352
NO3 = .026204 NH3 = .060194 ALK = .140000 FILT = 2000.00 RESIN = 1000.00 FORMNAME= FORMAGE =
ROCKTYPE=

=STREAM BASIN =0 STRWIDTH= 14.0000 STRDEPTH= 2.00000 VELOCITY= 1.00000 STRSHAPE=CHANN STRBOTOM=SANDGRAV
STRBOTOM=ROCK STRBED =DEPOSIT STRLEVEL=NORMAL STRVEG =MODERATE STRRELIF=GENTLE STRPREC =GREEN STRACT =
STRACT = STRACT = STRACT = STRACT =FARM STRSAMPW= STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH= STRRAIN =NO
****

SITE =NCCL019 LATITUDE= 35.3944 LONGITUD= 81.5249 SAMPDATE=10/03/75 SAMPTIME=1800 TEAMS =K01 DUMMY =0
PH = 5.62000 EH = 205.000 TEMP = 14.7100 COND = 40.0000 O2 = 7.50000 SO4 = 38.5848 PO4 = .959875
NO3 = .061722 NH3 = .181266 ALK = .140000 FILT = 2000.00 RESIN = 1000.00 FORMNAME= FORMAGE =
ROCKTYPE=

=STREAM BASIN =0 STRWIDTH= 26.0000 STRDEPTH= 3.00000 VELOCITY= 1.00000 STRSHAPE=TRIANG STRBOTOM=SANDGRAV
STRBOTOM=ROCK STRBED =ERODED STRLEVEL=NORMAL STRVEG =MODERATE STRRELIF=GENTLE STRPREC =RED STRACT =
STRACT = STRACT = STRACT = STRACT =FARM STRSAMPW= STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH= STRRAIN =NO
****

SITE =NCCL020 LATITUDE= 35.3891 LONGITUD= 81.4358 SAMPDATE=10/01/75 SAMPTIME=1710 TEAMS =K01 DUMMY =0
PH = 6.43000 EH = 251.000 TEMP = 17.6000 COND = 47.0000 O2 = 7.61000 SO4 = 40.5936 PO4 = .079826
NO3 = .091483 NH3 =0.000000 ALK = .160000 FILT = 2000.00 RESIN = 1000.00 FORMNAME= FORMAGE =
ROCKTYPE=

=STREAM BASIN =0 STRWIDTH= 14.0000 STRDEPTH= 2.00000 VELOCITY= 1.00000 STRSHAPE=TRIANG STRBOTOM=SANDGRAV
STRBOTOM=ROCK STRBED =ERODED STRLEVEL=NORMAL STRVEG =MODERATE STRRELIF=LOW STRPREC = STRACT =
STRACT = STRACT = STRACT = STRACT =FARM STRSAMPW= STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=CLOUDY STRRAIN =NO

NURE MASTER FILE EDIT

****

SITE =NCCL021 LATITUDE= 35.3750 LONGITUD= 81.4623 SAMPDATE=10/01/75 SAMPTIME=1110 TEAMS =K01 DUMMY =0
PH = 5.82000 EH = 220.000 TEMP = 16.2500 COND = 32.0000 O2 = 6.95000 SO4 = 26.8563 PO4 = 1.17114
NO3 =-.419485 NH3 = .029631 ALK = .120000 FILT = 2000.00 RESIN = 1000.00 FORMNAME= FORMAGE =
ROCKTYPE=

=STREAM BASIN =0 STRWIDTH= 12.0000 STRDEPTH= 2.00000 VELOCITY= 1.40000 STRSHAPE=TRIANG STRBOTOM=ROCK
STRBOTOM=SAND STRBED = STRLEVEL=NORMAL STRVEG =MODERATE STRRELIF=LOW STRPREC = STRACT =
STRACT = STRACT = STRACT = STRACT =FARM STRSAMPW= STRSAMPS=COMPOSIT STRCOLOR=BROWNT
STRWEATH=CLOUDY STRRAIN =NO
****

SITE =NCCL022 LATITUDE= 35.3867 LONGITUD= 81.4509 SAMPDATE=10/01/75 SAMPTIME=1310 TEAMS =K01 DUMMY =0
PH = 6.48000 EH = 196.000 TEMP = 16.8500 COND = 38.0000 O2 = 5.88000 SO4 = 37.6546 PO4 = .575996
NO3 = .085175 NH3 = 1.31946 ALK = .120000 FILT = 2000.00 RESIN = 1000.00 FORMNAME= FORMAGE =
ROCKTYPE=

=STREAM BASIN =0 STRWIDTH= 12.0000 STRDEPTH= 2.00000 VELOCITY= 1.00000 STRSHAPE=CHANN STRBOTOM=NOTDET
STRBOTOM=SAND STRBED =DEPOSIT STRLEVEL=NORMAL STRVEG =MODERATE STRRELIF=GENTLE STRPREC =NONE STRACT =
STRACT = STRACT = STRACT = STRACT =FARM STRSAMPW= STRSAMPS=COMPOSIT STRCOLOR=BROWNT
STRWEATH=LIGHT STRRAIN =YES
****

SITE =NCCL023 LATITUDE= 35.3715 LONGITUD= 81.5719 SAMPDATE=10/07/75 SAMPTIME=1645 TEAMS =K01 DUMMY =0
PH = 5.69000 EH = 141.000 TEMP = 18.1500 COND = 35.0000 O2 = 8.08000 SO4 = 45.3850 PO4 = .597273
NO3 = .067339 NH3 =0.000000 ALK = .100000 FILT = 2000.00 RESIN = 1000.00 FORMNAME= FORMAGE =
ROCKTYPE=

=STREAM BASIN =0 STRWIDTH= 23.0000 STRDEPTH= 3.00000 VELOCITY= 1.00000 STRSHAPE=TRAP STRBOTOM=SANDGRAV
STRBOTOM=ROCK STRBED =DEPOSIT STRLEVEL=NORMAL STRVEG =MODERATE STRRELIF=GENTLE STRPREC =NONE STRACT =
STRACT = STRACT = STRACT = STRACT =FARM STRSAMPW= STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=CLOUDY STRRAIN =NO
****

SITE =NCCL024 LATITUDE= 35.3991 LONGITUD= 81.5427 SAMPDATE=10/04/75 SAMPTIME=920 TEAMS =K01 DUMMY =0
PH = 7.51000 EH = 129.000 TEMP = 11.1300 COND = 38.0000 O2 = 8.70000 SO4 = 25.3696 PO4 = .869640
NO3 = .076063 NH3 = .241708 ALK = .140000 FILT = 2000.00 RESIN = 1000.00 FORMNAME= FORMAGE =
ROCKTYPE=

=STREAM BASIN =0 STRWIDTH= 26.0000 STRDEPTH= 3.00000 VELOCITY= 1.00000 STRSHAPE=CHANN STRBOTOM=SANDGRAV
STRBOTOM=ROCK STRBED =ERODED STRLEVEL=NORMAL STRVEG =MODERATE STRRELIF=GENTLE STRPREC =NONE STRACT =
STRACT = STRACT = STRACT = STRACT =FARM STRSAMPW= STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH= STRRAIN =NO
****

NURE MASTER FILE EDIT

```
SITE     =NCCL025  LATITUDE= 35.4137 LONGITUD= 81.4993 SAMPDATE= 9/25/75 SAMPTIME=810       TEAMS    =K01       DUMMY    =0
PH       = 7.15300 EH      = 193.000 TEMP     = 15.4700 COND     = 46.0000 O2       = 7.68000 SO4      = 45.3850 PO4      = 2.21126
NO3      = .182766 NH3     = .843922 ALK      = .140000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 5.00000 STRDEPTH= 1.00000 VELOCITY= 2.00000 STRSHAPE=CHANN     STRBOTOM=NOTDET
STRBOTOM=SANDGRAV  STRBED   =ERODED   STRLEVEL=NORMAL   STRVEG   =MODERATE STRRELIF=GENTLE   STRPREC  =NONE      STRACT   =
STRACT   =         STRACT   =         STRACT   =         STRACT   =FARM     STRSAMPW=          STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=CLOUDY    STRRAIN  =YES
         **********************************************************************

SITE     =NCCL026  LATITUDE= 35.4026 LONGITUD= 81.4687 SAMPDATE=10/02/75 SAMPTIME=0         TEAMS    =K01       DUMMY    =0
PH       = 6.39000 EH      = 200.000 TEMP     = 16.6200 COND     = 40.0000 O2       = 7.53000 SO4      = 14.4468 PO4      = .272586
NO3      = .008367 NH3     =0.000000 ALK      = .160000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 32.0000 STRDEPTH= 4.00000 VELOCITY= 1.00000 STRSHAPE=TRAP      STRBOTOM=SANDGRAV
STRBOTOM=ROCK      STRBED   =ERODED   STRLEVEL=NORMAL   STRVEG   =MODERATE STRRELIF=GENTLE   STRPREC  =RED       STRACT   =
STRACT   =         STRACT   =         STRACT   =         STRACT   =FARM     STRSAMPW=          STRSAMPS=COMPOSIT STRCOLOR=BROWNT
STRWEATH=CLOUDY    STRRAIN  =YES
         **********************************************************************

SITE     =NCCL027  LATITUDE= 35.4331 LONGITUD= 81.5897 SAMPDATE=10/02/75 SAMPTIME=1450      TEAMS    =K01       DUMMY    =0
PH       = 5.45000 EH      = 278.000 TEMP     = 14.5200 COND     = 35.0000 O2       = 8.38000 SO4      = 35.1087 PO4      = .687510
NO3      = .085175 NH3     = .217079 ALK      = .040000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 16.0000 STRDEPTH= 2.00000 VELOCITY= 1.00000 STRSHAPE=CHANN     STRBOTOM=SANDGRAV
STRBOTOM=ROCK      STRBED   =ERODED   STRLEVEL=NORMAL   STRVEG   =MODERATE STRRELIF=GENTLE   STRPREC  =NONE      STRACT   =
STRACT   =         STRACT   =         STRACT   =         STRACT   =FARM     STRSAMPW=          STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=          STRRAIN  =NO
         **********************************************************************

SITE     =NCCL028  LATITUDE= 35.4372 LONGITUD= 81.5449 SAMPDATE=10/03/75 SAMPTIME=0         TEAMS    =K01       DUMMY    =0
PH       = 3.55000 EH      = 202.000 TEMP     = 12.7400 COND     = 42.0000 O2       = 8.24000 SO4      = 26.3475 PO4      = .439114
NO3      =0.000000 NH3     =0.000000 ALK      = .120000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 26.0000 STRDEPTH= 2.00000 VELOCITY= 1.00000 STRSHAPE=TRAP      STRBOTOM=NOTDET
STRBOTOM=SANDGRAV  STRBED   =DEPOSIT  STRLEVEL=NORMAL   STRVEG   =MODERATE STRRELIF=GENTLE   STRPREC  =NONE      STRACT   =
STRACT   =         STRACT   =         STRACT   =         STRACT   =FARM     STRSAMPW=          STRSAMPS=COMPOSIT STRCOLOR=BROWNT
STRWEATH=          STRRAIN  =NO
         **********************************************************************

SITE     =NCCL029  LATITUDE= 35.4378 LONGITUD= 81.5207 SAMPDATE=10/03/75 SAMPTIME=1150      TEAMS    =K01       DUMMY    =0
```


NURE MASTER FILE EDIT

```
PH       = 4.20000 EH      = 214.000 TEMP     = 14.4700 COND     = 42.0000 O2       = 7.33000 SO4      = 29.6239 PO4      = .457497
NO3      = .004141 NH3     =0.000000 ALK      = .140000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 6.00000 STRDEPTH= 1.00000 VELOCITY= 1.00000 STRSHAPE=CHANN     STRBOTOM=SANDGRAV
STRBOTOM=ROCK      STRBED   =ERODED   STRLEVEL=NORMAL   STRVEG   =MODERATE STRRELIF=GENTLE   STRPREC  =NONE      STRACT   =
STRACT   =         STRACT   =         STRACT   =         STRACT   =FARM     STRSAMPW=          STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=          STRRAIN  =NO
         **********************************************************************

SITE     =NCCL030  LATITUDE= 35.4296 LONGITUD= 81.4751 SAMPDATE=10/02/75 SAMPTIME=930       TEAMS    =K01       DUMMY    =0
PH       = 6.81000 EH      = 199.000 TEMP     = 16.5500 COND     = 41.0000 O2       = 7.32000 SO4      = 38.5848 PO4      = .386010
NO3      = .026204 NH3     =0.000000 ALK      = .140000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 36.0000 STRDEPTH= 6.00000 VELOCITY= 2.00000 STRSHAPE=TRAP      STRBOTOM=SANDGRAV
STRBOTOM=ROCK      STRBED   =ERODED   STRLEVEL=NORMAL   STRVEG   =MODERATE STRRELIF=GENTLE   STRPREC  =RED       STRACT   =
STRACT   =         STRACT   =         STRACT   =         STRACT   =FARM     STRSAMPW=          STRSAMPS=COMPOSIT STRCOLOR=BROWNT
STRWEATH=          STRRAIN  =YES
         **********************************************************************

SITE     =NCCL031  LATITUDE= 35.4454 LONGITUD= 81.4608 SAMPDATE= 9/25/75 SAMPTIME=1605      TEAMS    =K01       DUMMY    =0
PH       = 6.53000 EH      = 131.000 TEMP     = 13.5700 COND     = 42.0000 O2       = 7.47300 SO4      = 23.5524 PO4      = .664132
NO3      = .177826 NH3     = .843922 ALK      = .120000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 30.0000 STRDEPTH= 2.00000 VELOCITY= 2.00000 STRSHAPE=TRAP      STRBOTOM=SANDGRAV
STRBOTOM=ROCK      STRBED   =ERODED   STRLEVEL=NORMAL   STRVEG   =MODERATE STRRELIF=GENTLE   STRPREC  =NONE      STRACT   =
STRACT   =         STRACT   =         STRACT   =         STRACT   =FARM     STRSAMPW=          STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=CLOUDY    STRRAIN  =YES
         **********************************************************************

SITE     =NCCL032  LATITUDE= 35.4460 LONGITUD= 81.5321 SAMPDATE=10/03/75 SAMPTIME=830       TEAMS    =K01       DUMMY    =0
PH       = 3.08000 EH      = 227.000 TEMP     = 11.9500 COND     = 44.0000 O2       = 8.05000 SO4      = 14.4468 PO4      = 1.25352
NO3      = .082092 NH3     = .241703 ALK      = 1.44000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 22.0000 STRDEPTH= 2.00000 VELOCITY= 1.00000 STRSHAPE=TRAP      STRBOTOM=SANDGRAV
STRBOTOM=ROCK      STRBED   =ERODED   STRLEVEL=NORMAL   STRVEG   =MODERATE STRRELIF=GENTLE   STRPREC  =NONE      STRACT   =
STRACT   =         STRACT   =         STRACT   =         STRACT   =FARM     STRSAMPW=          STRSAMPS=COMPOSIT STRCOLOR=BROWNT
STRWEATH=          STRRAIN  =NO
         **********************************************************************

SITE     =NCCL033  LATITUDE= 35.4419 LONGITUD= 81.4915 SAMPDATE=10/02/75 SAMPTIME=1200      TEAMS    =K01       DUMMY    =0
PH       = 6.22000 EH      = 254.000 TEMP     = 17.3200 COND     = 56.0000 O2       = 7.18000 SO4      = 29.0372 PO4      = .476246
```

NURE MASTER FILE EDIT

```
NO3     = .030917 NH3     = .081116 ALK     = .240000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 6.00000 STRDEPTH= 1.00000 VELOCITY= 1.00000 STRSHAPE=TRAP     STRBOTOM=NOTDET
STRBOTOM=SANDGRAV STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=BROWNT
STRWEATH=         STRRAIN =YES
        **********************************************************************

SITE    =NCCL034  LATITUDE= 35.4579 LONGITUD= 81.4929 SAMPDATE=10/02/75 SAMPTIME=1540     TEAMS   =K01      DUMMY   =0
PH      = 6.83000 EH      = 281.000 TEMP    = 18.2500 COND    = 41.0000 O2      = 7.09000 SO4     = 26.3475 PO4     = .439114
NO3     = .045741 NH3     = .169614 ALK     = .120000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 36.0000 STRDEPTH= 6.00000 VELOCITY= 1.00000 STRSHAPE=TRAP     STRBOTOM=NOTDET
STRBOTOM=SANDGRAV STRBED  =         STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=GENTLE   STRPREC =REO      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=BROWNT
STRWEATH=CLOUDY   STRRAIN =YES
        **********************************************************************

SITE    =NCCL035  LATITUDE= 35.4736 LONGITUD= 81.6040 SAMPDATE= 9/25/75 SAMPTIME=1410     TEAMS   =K01      DUMMY   =0
PH      = 6.80000 EH      = 214.000 TEMP    = 18.3700 COND    = 36.0000 O2      = 7.65000 SO4     = 39.5627 PO4     = .352193
NO3     = .198342 NH3     = .891387 ALK     = .100000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 20.0000 STRDEPTH= 2.00000 VELOCITY= 2.00000 STRSHAPE=TRAP     STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=CLOUDY   STRRAIN =YES
        **********************************************************************

SITE    =NCCL036  LATITUDE= 35.4730 LONGITUD= 81.5677 SAMPDATE= 9/26/75 SAMPTIME=1410     TEAMS   =K01      DUMMY   =0
PH      = 5.48000 EH      = 170.000 TEMP    = 17.1700 COND    = 32.0000 O2      = 7.05000 SO4     = 30.8544 PO4     = .813933
NO3     = .030917 NH3     = .434157 ALK     = .120000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 20.0000 STRDEPTH= 3.00000 VELOCITY= 2.00000 STRSHAPE=TRAP     STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=CLOUDY   STRRAIN =YES
        **********************************************************************

SITE    =NCCL037  LATITUDE= 35.4701 LONGITUD= 81.5613 SAMPDATE= 9/26/75 SAMPTIME=1510     TEAMS   =K01      DUMMY   =0
PH      = 5.77000 EH      = 186.000 TEMP    = 17.8900 COND    = 32.0000 O2      = 7.44000 SO4     = 28.4681 PO4     = .641317
NO3     = .040680 NH3     = .193057 ALK     = .120000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
```


NURE MASTER FILE EDIT

```
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 30.0000 STRDEPTH= 3.00000 VELOCITY= 2.00000 STRSHAPE=CHANN    STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=CLOUDY   STRRAIN =YES
        **********************************************************************

SITE    =NCCL038  LATITUDE= 35.4666 LONGITUD= 81.5142 SAMPDATE=10/02/75 SAMPTIME=1700     TEAMS   =K01      DUMMY   =0
PH      = 6.10000 EH      = 293.000 TEMP    = 17.3400 COND    = 59.0000 O2      = 7.54000 SO4     = 33.5827 PO4     = .736072
NO3     = .118855 NH3     = .714020 ALK     = .140000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 16.0000 STRDEPTH= 2.00000 VELOCITY= 1.00000 STRSHAPE=CHANN    STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =         STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=GENTLE   STRPREC =GREEN    STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=BROWNT
STRWEATH=CLOUDY   STRRAIN =YES
        **********************************************************************

SITE    =NCCL039  LATITUDE= 35.4683 LONGITUD= 81.4915 SAMPDATE= 9/26/75 SAMPTIME=1815     TEAMS   =K01      DUMMY   =0
PH      = 5.02000 EH      = 261.000 TEMP    = 18.6100 COND    = 42.0000 O2      = 7.20000 SO4     = 26.3475 PO4     = 2.00000
NO3     = .067339 NH3     = .279863 ALK     = .140000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 26.0000 STRDEPTH= 4.00000 VELOCITY= 2.00000 STRSHAPE=CHANN    STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=         STRRAIN =YES
        **********************************************************************

SITE    =NCCL040  LATITUDE= 35.4971 LONGITUD= 81.5833 SAMPDATE= 9/26/75 SAMPTIME=1115     TEAMS   =K01      DUMMY   =0
PH      = 7.01000 EH      = 186.000 TEMP    = 15.3200 COND    = 29.0000 O2      = 7.82000 SO4     = 35.1087 PO4     = 1.75160
NO3     = .021597 NH3     = .019653 ALK     = .100000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 40.0000 STRDEPTH= 2.00000 VELOCITY= 2.00000 STRSHAPE=TRAP     STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=CLOUDY   STRRAIN =YES
        **********************************************************************

SITE    =NCCL041  LATITUDE= 35.5018 LONGITUD= 81.5463 SAMPDATE=10/09/75 SAMPTIME=1245     TEAMS   =K01      DUMMY   =0
PH      = 5.24000 EH      = 111.000 TEMP    = 17.4100 COND    = 25.0000 O2      = 7.33000 SO4     = 38.5848 PO4     = .787261
NO3     = .073113 NH3     = .292922 ALK     = .080000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=
```

NURE MASTER FILE EDIT

```
        =STREAM   BASIN   =0        STRWIDTH= 20.0000 STRDEPTH= 2.00000 VELOCITY= 2.00000 STRSHAPE=TRAP     STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=HIGH     STRVEG  =MODERATE STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=BROWNT
STRWEATH=         STRRAIN =YES
        **********************************************************************

SITE    =NCCL042  LATITUDE= 35.4918 LONGITUD= 81.5314 SAMPDATE=10/09/75 SAMPTIME=1320     TEAMS   =K01      DUMMY   =0
PH      = 5.90000 EH      = 139.000 TEMP    = 16.1800 COND    = 38.0000 O2      = 7.70000 SO4     = 34.3304 PO4     = .495372
NO3     = .079056 NH3     =0.000000 ALK     = .080000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 26.0000 STRDEPTH= 3.00000 VELOCITY= 2.00000 STRSHAPE=TRAP     STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=HIGH     STRVEG  =MODERATE STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=BROWNT
STRWEATH=         STRRAIN =YES
        **********************************************************************

SITE    =NCCL043  LATITUDE= 35.5247 LONGITUD= 81.5862 SAMPDATE= 9/23/75 SAMPTIME=1500     TEAMS   =K01      DUMMY   =0
PH      = 6.88000 EH      = 177.000 TEMP    = 17.3500 COND    = 27.0000 O2      = 7.69000 SO4     = 24.4393 PO4     = .898773
NO3     = .040680 NH3     = .529922 ALK     = .080000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 20.0000 STRDEPTH= 3.00000 VELOCITY= 1.00000 STRSHAPE=TRIANG   STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=GENTLE   STRPREC =GREEN    STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=BROWNT
STRWEATH=LIGHT    STRRAIN =YES
        **********************************************************************

SITE    =NCCL044  LATITUDE= 35.5129 LONGITUD= 81.5620 SAMPDATE=10/09/75 SAMPTIME=1450     TEAMS   =K01      DUMMY   =0
PH      = 6.21000 EH      = 133.000 TEMP    = 17.2100 COND    = 19.0000 O2      = 6.64000 SO4     = 29.6239 PO4     = .841376
NO3     = .061722 NH3     = .292922 ALK     = .040000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 15.0000 STRDEPTH= 3.00000 VELOCITY= 2.00000 STRSHAPE=TRAP     STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=         STRRAIN =YES
        **********************************************************************

SITE    =NCCL045  LATITUDE= 35.5158 LONGITUD= 81.5336 SAMPDATE= 9/24/75 SAMPTIME=830      TEAMS   =K01      DUMMY   =0
PH      = 5.68000 EH      = 85.0000 TEMP    = 18.2500 COND    = 37.0000 O2      = 7.52000 SO4     = 45.3850 PO4     = .813933
NO3     = .118855 NH3     =0.000000 ALK     = .100000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 26.0000 STRDEPTH= 2.00000 VELOCITY= 2.00000 STRSHAPE=TRAP     STRBOTOM=NOT DET
```


NURE MASTER FILE EDIT

```
STRBOTOM=SANDGRAV STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=CLOUDY   STRRAIN =YES
        **********************************************************************

SITE    =NCCL046  LATITUDE= 35.5346 LONGITUD= 81.6403 SAMPDATE= 9/23/75 SAMPTIME=1330     TEAMS   =K01      DUMMY   =0
PH      = 6.99000 EH      = 172.000 TEMP    = 17.8100 COND    = 37.0000 O2      = 7.07000 SO4     = 27.9154 PO4     = 1.15249
NO3     =0.000000 NH3     =0.000000 ALK     = .140000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 15.0000 STRDEPTH= 2.00000 VELOCITY= 2.00000 STRSHAPE=CHANN    STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=LIGHT    STRRAIN =YES
        **********************************************************************

SITE    =NCCL047  LATITUDE= 35.5323 LONGITUD= 81.6168 SAMPDATE= 9/23/75 SAMPTIME=905      TEAMS   =K01      DUMMY   =0
PH      = 7.48000 EH      = 142.000 TEMP    = 16.9500 COND    = 29.0000 O2      = 7.78000 SO4     = 29.6239 PO4     = 1.09536
NO3     = .073113 NH3     =0.000000 ALK     = .100000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 20.0000 STRDEPTH= 3.00000 VELOCITY= 2.00000 STRSHAPE=CHANN    STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=HIGH     STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=BROWNC
STRWEATH=LIGHT    STRRAIN =YES
        **********************************************************************

SITE    =NCCL048  LATITUDE= 35.5387 LONGITUD= 81.5427 SAMPDATE= 9/24/75 SAMPTIME=1545     TEAMS   =K01      DUMMY   =0
PH      = 6.55000 EH      = 192.000 TEMP    = 18.8100 COND    = 28.0000 O2      = 7.60000 SO4     = 35.9201 PO4     = .959875
NO3     = .134047 NH3     = .755424 ALK     = .080000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 26.0000 STRDEPTH= 2.00000 VELOCITY= 2.00000 STRSHAPE=TRAP     STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=CLOUDY   STRRAIN =YES
        **********************************************************************

SITE    =NCCL049  LATITUDE= 35.5370 LONGITUD= 81.5207 SAMPDATE= 9/24/75 SAMPTIME=1145     TEAMS   =K01      DUMMY   =0
PH      = 6.68000 EH      = 414.000 TEMP    = 18.0500 COND    = 28.0000 O2      = 7.62000 SO4     = 16.6266 PO4     = .736072
NO3     = .122549 NH3     = .529922 ALK     = .100000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 18.0000 STRDEPTH= 2.00000 VELOCITY= 2.00000 STRSHAPE=TRAP     STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
```

NURE MASTER FILE EDIT

```
STRACT  =          STRACT  =          STRACT  =          STRACT  =FARM      STRSAMPW=          STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=CLOUDY    STRRAIN =YES
          **********************************************************************


SITE     =NCCL050  LATITUDE= 35.5522 LONGITUD= 81.5655 SAMPDATE= 9/24/75 SAMPTIME=1345      TEAMS    =K01      DUMMY    =0
PH       = 5.98000 EH       = 296.000 TEMP     = 17.8800 COND     = 28.0000 O2       = 7.40000 SO4      = 40.5936 PO4      = .687510
NO3      = .130142 NH3      = .655043 ALK      = .100000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 6.00000 STRDEPTH= 1.00000 VELOCITY= 2.00000 STRSHAPE=TRAP     STRBOTOM=SANDGRAV
STRBOTOM=ROCK      STRBED   =ERODED   STRLEVEL=NORMAL    STRVEG   =FOREST   STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =          STRACT   =         STRACT  =          STRACT   =FARM     STRSAMPW=          STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=CLOUDY    STRRAIN =YES
          **********************************************************************


SITE     =NCCL051  LATITUDE= 35.4478 LONGITUD= 81.6432 SAMPDATE= 9/27/75 SAMPTIME=930       TEAMS    =K01      DUMMY    =0
PH       = 7.25000 EH       = 160.000 TEMP     = 15.7000 COND     = 31.0000 O2       = 7.70000 SO4      = 28.4681 PO4      = .959875
NO3      = .045741 NH3      = .039712 ALK      = .120000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 80.0000 STRDEPTH= 10.0000 VELOCITY= 2.00000 STRSHAPE=TRAP     STRBOTOM=SANDGRAV
STRBOTOM=ROCK      STRBED   =DEPOSIT  STRLEVEL=NORMAL    STRVEG   =FOREST   STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =          STRACT   =         STRACT  =          STRACT   =FARM     STRSAMPW=          STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=          STRRAIN =YES
          **********************************************************************


SITE     =NCCL052  LATITUDE= 35.3750 LONGITUD= 81.6382 SAMPDATE=10/08/75 SAMPTIME=830       TEAMS    =K01      DUMMY    =0
PH       = 7.06000 EH       = 139.000 TEMP     = 16.2700 COND     = 32.0000 O2       = 7.71000 SO4      = 41.6833 PO4      = .687510
NO3      = .021597 NH3      = .081116 ALK      = .080000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 60.0000 STRDEPTH= 4.00000 VELOCITY= 2.00000 STRSHAPE=TRAP     STRBOTOM=SANDGRAV
STRBOTOM=ROCK      STRBED   =ERODED   STRLEVEL=NORMAL    STRVEG   =FOREST   STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =          STRACT   =         STRACT  =          STRACT   =FARM     STRSAMPW=          STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=LIGHT     STRRAIN =YES
          **********************************************************************


SITE     =NCCL053  LATITUDE= 35.1878 LONGITUD= 81.5078 SAMPDATE=10/29/75 SAMPTIME=1010      TEAMS    =K01      DUMMY    =0
PH       = 7.82000 EH       = 118.000 TEMP     = 16.5500 COND     = 76.0000 O2       = 7.31000 SO4      = 45.3850 PO4      = .575996
NO3      = .050931 NH3      =0.000000 ALK      = .380000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 90.0000 STRDEPTH= 5.00000 VELOCITY= 1.00000 STRSHAPE=TRAP     STRBOTOM=SANDGRAV
STRBOTOM=ROCK      STRBED   =ERODED   STRLEVEL=NORMAL    STRVEG   =FOREST   STRRELIF=GENTLE   STRPREC =          STRACT  =
STRACT  =OTHER     STRACT   =FARM     STRACT  =SEWAGE    STRACT   =MINE     STRSAMPW=          STRSAMPS=COMPOSIT STRCOLOR=
```


NURE MASTER FILE EDIT

```
STRWEATH=          STRRAIN =NO
          **********************************************************************


SITE     =NCCL054  LATITUDE= 35.2359 LONGITUD= 81.4751 SAMPDATE=10/29/75 SAMPTIME=835       TEAMS    =K01      DUMMY    =0
PH       = 7.95000 EH       = 98.0000 TEMP     = 16.4900 COND     = 79.0000 O2       = 7.93000 SO4      = 26.3475 PO4      = 1.25352
NO3      = .026204 NH3      = .241708 ALK      = .360000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 80.0000 STRDEPTH= 4.00000 VELOCITY= 1.00000 STRSHAPE=TRAP     STRBOTOM=SANDGRAV
STRBOTOM=ROCK      STRBED   =ERODED   STRLEVEL=NORMAL    STRVEG   =FOREST   STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =OTHER     STRACT   =RESID    STRACT  =MINE      STRACT   =FARM     STRSAMPW=          STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=          STRRAIN =NO
          **********************************************************************


SITE     =NCCL055  LATITUDE= 35.2670 LONGITUD= 81.4266 SAMPDATE=10/28/75 SAMPTIME=1520      TEAMS    =K01      DUMMY    =0
PH       = 8.20000 EH       = 65.0000 TEMP     = 17.7300 COND     = 51.0000 O2       = 7.60000 SO4      = 15.8127 PO4      = 1.17114
NO3      = .061722 NH3      = .146725 ALK      = .340000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 32.0000 STRDEPTH= 2.00000 VELOCITY= 2.00000 STRSHAPE=TRIANG   STRBOTOM=SANDGRAV
STRBOTOM=ROCK      STRBED   =ERODED   STRLEVEL=NORMAL    STRVEG   =MODERATE STRRELIF=GENTLE   STRPREC =RED      STRACT  =
STRACT  =          STRACT   =         STRACT  =MINE      STRACT   =FARM     STRSAMPW=          STRSAMPS=COMPOSIT STRCOLOR=BROWNT
STRWEATH=          STRRAIN =NO
          **********************************************************************


SITE     =NCCL056  LATITUDE= 35.2799 LONGITUD= 81.4316 SAMPDATE=10/28/75 SAMPTIME=1325      TEAMS    =K01      DUMMY    =0
PH       = 7.65000 EH       = 82.0000 TEMP     = 16.8400 COND     = 48.0000 O2       = 8.82000 SO4      = 14.7216 PO4      = 2.48363
NO3      = .056256 NH3      =0.000000 ALK      = .340000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 40.0000 STRDEPTH= 4.00000 VELOCITY= 1.00000 STRSHAPE=CHANN    STRBOTOM=SANDGRAV
STRBOTOM=ROCK      STRBED   =ERODED   STRLEVEL=NORMAL    STRVEG   =MODERATE STRRELIF=GENTLE   STRPREC =RED      STRACT  =
STRACT  =          STRACT   =         STRACT  =MINE      STRACT   =FARM     STRSAMPW=          STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=          STRRAIN =NO
          **********************************************************************


SITE     =NCCL057  LATITUDE= 35.2952 LONGITUD= 81.4295 SAMPDATE=10/28/75 SAMPTIME=1035      TEAMS    =K01      DUMMY    =0
PH       = 7.92000 EH       = 84.0000 TEMP     = 15.3400 COND     = 54.0000 O2       = 8.32000 SO4      = 9.03446 PO4      = .534828
NO3      = .030917 NH3      = .113368 ALK      = .360000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 32.0000 STRDEPTH= 3.00000 VELOCITY= 2.00000 STRSHAPE=CHANN    STRBOTOM=SANDGRAV
STRBOTOM=ROCK      STRBED   =ERODED   STRLEVEL=NORMAL    STRVEG   =FOREST   STRRELIF=GENTLE   STRPREC =RED      STRACT  =
STRACT  =          STRACT   =         STRACT  =MINE      STRACT   =FARM     STRSAMPW=          STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=          STRRAIN =NO
```

NURE MASTER FILE EDIT

```
**********************************************************************

SITE     =NCCL058  LATITUDE= 35.3081 LONGITUD= 81.4167 SAMPDATE=10/28/75 SAMPTIME=755       TEAMS    =K01       DUMMY    =0
PH       = 8.13000 EH       = 81.0000 TEMP     = 14.3100 COND     = 55.0000 O2       = 7.49000 SO4      = 26.3475 PO4      = .476246
NO3      = .079056 NH3      = .102498 ALK      = .380000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE  =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 36.0000 STRDEPTH= 3.00000 VELOCITY= 1.00000 STRSHAPE=CHANN     STRBOTOM=
STRBOTOM=SANDGRAV  STRBED   =ERODED   STRLEVEL=NORMAL   STRVEG   =MODERATE STRRELIF=GENTLE   STRPREC =RED       STRACT   =
STRACT   =         STRACT   =         STRACT   =MINE     STRACT   =FARM     STRSAMPW=          STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=          STRRAIN  =NO
**********************************************************************

SITE     =NCCL059  LATITUDE= 35.4853 LONGITUD= 81.4793 SAMPDATE=10/10/75 SAMPTIME=1505      TEAMS    =K01       DUMMY    =0
PH       = 5.51000 EH       = 107.000 TEMP     = 18.2200 COND     = 42.0000 O2       = 5.43000 SO4      = 35.1087 PO4      = 1.68144
NO3      = .134047 NH3      = .404222 ALK      = .140000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE  =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 23.0000 STRDEPTH= 3.00000 VELOCITY= 1.00000 STRSHAPE=TRAP      STRBOTOM=SANDGRAV
STRBOTOM=ROCK      STRBED   =ERODED   STRLEVEL=NORMAL   STRVEG   =FOREST   STRRELIF=GENTLE   STRPREC =RED       STRACT   =
STRACT   =         STRACT   =         STRACT   =RESID    STRACT   =FARM     STRSAMPW=          STRSAMPS=COMPOSIT STRCOLOR=BROWNT
STRWEATH=          STRRAIN  =YES
**********************************************************************

SITE     =NCCL061  LATITUDE= 35.4765 LONGITUD= 81.4615 SAMPDATE=10/01/75 SAMPTIME=1555      TEAMS    =K01       DUMMY    =0
PH       = 6.15000 EH       = 144.000 TEMP     = 12.9300 COND     = 32.0000 O2       = 6.91000 SO4      = 32.1698 PO4      = .619040
NO3      = .026204 NH3      = .081116 ALK      = .200000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE  =
ROCKTYPE=

         =STREAM   BASIN    =0.       STRWIDTH= 4.00000 STRDEPTH= 1.00000 VELOCITY= 2.00000 STRSHAPE=TRAP      STRBOTOM=SANDGRAV
STRBOTOM=ROCK      STRBED   =ERODED   STRLEVEL=NORMAL   STRVEG   =MODERATE STRRELIF=GENTLE   STRPREC =NONE      STRACT   =
STRACT   =         STRACT   =         STRACT   =FARM     STRACT   =RESID    STRSAMPW=          STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=          STRRAIN  =NO
**********************************************************************

SITE     =NCCL062  LATITUDE= 35.4448 LONGITUD= 81.4566 SAMPDATE= 9/25/75 SAMPTIME=1055      TEAMS    =K01       DUMMY    =0
PH       = 6.53000 EH       = 235.000 TEMP     = 16.2300 COND     = 44.0000 O2       = 7.70000 SO4      = 38.5848 PO4      = 1.34375
NO3      = .221142 NH3      =0.000000 ALK      = .180000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE  =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 31.0000 STRDEPTH= 2.00000 VELOCITY= 1.00000 STRSHAPE=TRIANG    STRBOTOM=SANDGRAV
STRBOTOM=ROCK      STRBED   =ERODED   STRLEVEL=NORMAL   STRVEG   =MODERATE STRRELIF=GENTLE   STRPREC =NONE      STRACT   =
STRACT   =         STRACT   =         STRACT   =         STRACT   =FARM     STRSAMPW=          STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=CLOUDY    STRRAIN  =YES
**********************************************************************
```


NURE MASTER FILE EDIT

```
SITE     =NCCL064  LATITUDE= 35.5123 LONGITUD= 81.4131 SAMPDATE=10/10/75 SAMPTIME=1740      TEAMS    =K01       DUMMY    =0
PH       = 4.88000 EH       = 140.000 TEMP     = 18.3200 COND     = 38.0000 O2       = 5.62000 SO4      = 18.9545 PO4      = .185132
NO3      = .017092 NH3      = .375182 ALK      = .140000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE  =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 50.0000 STRDEPTH= 3.00000 VELOCITY= 1.00000 STRSHAPE=TRAP      STRBOTOM=SANDGRAV
STRBOTOM=ROCK      STRBED   =ERODED   STRLEVEL=NORMAL   STRVEG   =MODERATE STRRELIF=GENTLE   STRPREC =RED       STRACT   =
STRACT   =         STRACT   =         STRACT   =         STRACT   =FARM     STRSAMPW=          STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=          STRRAIN  =YES
**********************************************************************

SITE     =NCCL065  LATITUDE= 35.5129 LONGITUD= 81.4081 SAMPDATE=10/10/75 SAMPTIME=1840      TEAMS    =K01       DUMMY    =0
PH       = 6.97000 EH       = 123.000 TEMP     = 17.3400 COND     = 39.0000 O2       = 6.05000 SO4      = 16.0841 PO4      = .898773
NO3      = .111662 NH3      =0.000000 ALK      = .140000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE  =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 20.0000 STRDEPTH= 4.00000 VELOCITY= 2.00000 STRSHAPE=TRAP      STRBOTOM=SANDGRAV
STRBOTOM=ROCK      STRBED   =ERODED   STRLEVEL=NORMAL   STRVEG   =MODERATE STRRELIF=GENTLE   STRPREC =NONE      STRACT   =
STRACT   =         STRACT   =         STRACT   =         STRACT   =FARM     STRSAMPW=          STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=          STRRAIN  =YES
**********************************************************************

SITE     =NCCL066  LATITUDE= 35.5141 LONGITUD= 81.4010 SAMPDATE=10/11/75 SAMPTIME=1000      TEAMS    =K01       DUMMY    =0
PH       = 7.09000 EH       = 82.0000 TEMP     = 16.2100 COND     = 35.0000 O2       = 7.55000 SO4      = 40.5936 PO4      = .787261
NO3      = .030917 NH3      =0.000000 ALK      = .120000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE  =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 32.0000 STRDEPTH= 2.00000 VELOCITY= 1.00000 STRSHAPE=TRAP      STRBOTOM=
STRBOTOM=SANDGRAV  STRBED   =DEPOSIT  STRLEVEL=NORMAL   STRVEG   =MODERATE STRRELIF=GENTLE   STRPREC =NONE      STRACT   =
STRACT   =         STRACT   =         STRACT   =RESID    STRACT   =FARM     STRSAMPW=          STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=          STRRAIN  =NO
**********************************************************************

SITE     =NCCL067  LATITUDE= 35.4654 LONGITUD= 81.3981 SAMPDATE=11/01/75 SAMPTIME=1310      TEAMS    =K01       DUMMY    =0
PH       = 5.74000 EH       = 125.000 TEMP     = 11.0300 COND     = 24.0000 O2       = 8.14000 SO4      = 6.26682 PO4      = 1.68144
NO3      = .017092 NH3      = .019653 ALK      = .200000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE  =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 30.0000 STRDEPTH= 3.00000 VELOCITY= 2.00000 STRSHAPE=TRAP      STRBOTOM=SANDGRAV
STRBOTOM=ROCK      STRBED   =ERODED   STRLEVEL=NORMAL   STRVEG   =MODERATE STRRELIF=GENTLE   STRPREC =NONE      STRACT   =
STRACT   =MINE     STRACT   =FARM     STRACT   =OTHER    STRACT   =RESID    STRSAMPW=          STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=          STRRAIN  =NO
**********************************************************************

SITE     =NCCL068  LATITUDE= 35.4161 LONGITUD= 81.3704 SAMPDATE=10/16/75 SAMPTIME=815       TEAMS    =K01       DUMMY    =0
```

NURE MASTER FILE EDIT

```
PH      = 7.21000 EH      = 60.0000 TEMP    = 16.5100 COND    = 82.0000 O2      = 6.08000 SO4     = 15.8127 PO4     = 1.02520
NO3     = .489955 NH3     = 1.13935 ALK     = .260000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 15.0000 STRDEPTH= 2.00000 VELOCITY= 1.00000 STRSHAPE=CHANN    STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =RESID    STRACT  =FARM     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=         STRRAIN =NO
        **********************************************************************

SITE    =NCCL069  LATITUDE= 35.4366 LONGITUD= 81.3298 SAMPDATE=10/16/75 SAMPTIME=1030     TEAMS   =K01      DUMMY   =0
PH      = 6.37000 EH      = 70.0000 TEMP    = 17.1800 COND    = 52.0000 O2      = 7.48000 SO4     =0.000000 PO4     = .421079
NO3     = .045741 NH3     = .081116 ALK     = .260000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 18.0000 STRDEPTH= 3.00000 VELOCITY= 2.00000 STRSHAPE=CHANN    STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=GENTLE   STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=BROWNT
STRWEATH=         STRRAIN =NO
        **********************************************************************

SITE    =NCCL070  LATITUDE= 35.4272 LONGITUD= 81.3269 SAMPDATE=10/16/75 SAMPTIME=1400     TEAMS   =K01      DUMMY   =0
PH      = 6.54000 EH      = 67.0000 TEMP    = 18.4300 COND    = 56.0000 O2      = 5.85000 SO4     = 11.5957 PO4     = 1.68144
NO3     = .033314 NH3     = .158102 ALK     = .180000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 50.0000 STRDEPTH= 6.00000 VELOCITY= 1.00000 STRSHAPE=CHANN    STRBOTOM=
STRBOTOM=SILT     STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =FARM     STRACT  =MINE     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=BROWNT
STRWEATH=         STRRAIN =NO
        **********************************************************************

SITE    =NCCL071  LATITUDE= 35.3832 LONGITUD= 81.3269 SAMPDATE=10/15/75 SAMPTIME=1350     TEAMS   =K01      DUMMY   =0
PH      = 6.99000 EH      = 85.0000 TEMP    = 19.1300 COND    = 80.0000 O2      = 6.83000 SO4     = 4.06002 PO4     = 2.48363
NO3     = .040680 NH3     = .636154 ALK     = .280000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 16.0000 STRDEPTH= 2.00000 VELOCITY= 1.00000 STRSHAPE=CHANN    STRBOTOM=
STRBOTOM=SANDGRAV STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =RESID    STRACT  =FARM     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=         STRRAIN =NO
        **********************************************************************

SITE    =NCCL072  LATITUDE= 35.3903 LONGITUD= 81.2984 SAMPDATE=10/15/75 SAMPTIME=1515     TEAMS   =K01      DUMMY   =0
PH      = 6.90000 EH      = 198.000 TEMP    = 17.7900 COND    = 75.0000 O2      = 6.57000 SO4     = 20.3675 PO4     = 1.09536
```


NURE MASTER FILE EDIT

```
NO3     = .159179 NH3     = .529922 ALK     = .280000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 28.0000 STRDEPTH= 3.00000 VELOCITY= 1.00000 STRSHAPE=TRAP     STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =         STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=         STRRAIN =NO
        **********************************************************************

SITE    =NCCL073  LATITUDE= 35.3797 LONGITUD= 81.2956 SAMPDATE=10/15/75 SAMPTIME=1715     TEAMS   =K01      DUMMY   =0
PH      = 5.16000 EH      = 90.0000 TEMP    = 18.5500 COND    = 49.0000 O2      = 7.22000 SO4     =0.000000 PO4     = 1.82738
NO3     =0.000000 NH3     = .375182 ALK     = .180000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 26.0000 STRDEPTH= 3.00000 VELOCITY= 1.00000 STRSHAPE=TRAP     STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =FARM     STRACT  =MINE     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=         STRRAIN =NO
        **********************************************************************

SITE    =NCCL074  LATITUDE= 35.3034 LONGITUD= 81.3120 SAMPDATE=10/14/75 SAMPTIME=1700     TEAMS   =K01      DUMMY   =0
PH      = 7.27000 EH      = 76.0000 TEMP    = 19.0100 COND    = 57.0000 O2      = 6.62000 SO4     = 29.0372 PO4     = .787261
NO3     =0.000000 NH3     = .434157 ALK     = .220000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 26.0000 STRDEPTH= 2.00000 VELOCITY= 1.00000 STRSHAPE=CHANN    STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =OTHER    STRACT  =FARM     STRACT  =SEWAGE   STRACT  =MINE     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=         STRRAIN =NO
        **********************************************************************

SITE    =NCCL075  LATITUDE= 35.3181 LONGITUD= 81.2927 SAMPDATE=10/14/75 SAMPTIME=1500     TEAMS   =K01      DUMMY   =0
PH      = 7.06000 EH      = 106.000 TEMP    = 17.4100 COND    = 55.0000 O2      = 6.68000 SO4     = 28.4681 PO4     = .131016
NO3     = .008367 NH3     =0.000000 ALK     = .220000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 26.0000 STRDEPTH= 3.00000 VELOCITY= 1.00000 STRSHAPE=CHANN    STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =MINE     STRACT  =SMELT    STRACT  =FARM     STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=BROWNT
STRWEATH=         STRRAIN =NO
        **********************************************************************

SITE    =NCCL076  LATITUDE= 35.2512 LONGITUD= 81.2771 SAMPDATE=10/29/75 SAMPTIME=1600     TEAMS   =K01      DUMMY   =0
PH      = 8.47000 EH      = 61.0000 TEMP    = 18.2300 COND    = 192.000 O2      = 7.75000 SO4     = 19.6479 PO4     = 4.49386
NO3     = .050931 NH3     = .146725 ALK     = .440000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
```

NURE MASTER FILE EDIT

```
ROCKTYPE=

        =STREAM   BASIN   =0         STRWIDTH= 29.0000 STRDEPTH= 3.00000 VELOCITY= 2.00000 STRSHAPE=CHANN    STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =ERODED    STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =MINE     STRACT  =FARM     STRACT  =RESID    STRSAMPW=          STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=         STRRAIN =NO
          **********************************************************************


SITE    =NCCL077  LATITUDE= 35.2565 LONGITUD= 81.2699 SAMPDATE=10/30/75 SAMPTIME=735      TEAMS   =K01      DUMMY   =0
PH      = 7.20000 EH      = 18.0000 TEMP    = 16.4200 COND    = 699.000 O2      = 3.21000 SO4     = 325.076 PO4     = .959875
NO3     = .056256 NH3     = 1.23837 ALK     = .740000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0         STRWIDTH= 15.0000 STRDEPTH= 3.00000 VELOCITY= 1.00000 STRSHAPE=CHANN    STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =ERODED    STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=GENTLE   STRPREC =RED      STRACT  =
STRACT  =MINE     STRACT  =FARM     STRACT  =OTHER    STRACT  =RESID    STRSAMPW=          STRSAMPS=COMPOSIT STRCOLOR=WHITEC
STRWEATH=         STRRAIN =NO
          **********************************************************************


SITE    =NCCL078  LATITUDE= 35.1960 LONGITUD= 81.2222 SAMPDATE=10/30/75 SAMPTIME=1400     TEAMS   =K01      DUMMY   =0
PH      = 7.18000 EH      = 46.0000 TEMP    = 16.3700 COND    = 298.000 O2      = 4.70000 SO4     = 183.838 PO4     = .303632
NO3     =0.000000 NH3     = .102498 ALK     = .720000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0         STRWIDTH= 32.0000 STRDEPTH= 3.00000 VELOCITY= 1.00000 STRSHAPE=CHANN    STRBOTOM=
STRBOTOM=SANDGRAV STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =NONE     STRACT  =MINE
STRACT  =SEWAGE   STRACT  =FARM     STRACT  =OTHER    STRACT  =RESID    STRSAMPW=          STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=         STRRAIN =NO
          **********************************************************************


SITE    =NCCL079  LATITUDE= 35.2344 LONGITUD= 81.2322 SAMPDATE=10/30/75 SAMPTIME=1030     TEAMS   =K01      DUMMY   =0
PH      = 9.95000 EH      = 38.0000 TEMP    = 15.8500 COND    = 342.000 O2      = 3.45000 SO4     = 214.196 PO4     = .787261
NO3     = .061722 NH3     = .241708 ALK     = .740000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0         STRWIDTH= 24.0000 STRDEPTH= 4.00000 VELOCITY= 2.00000 STRSHAPE=CHANN    STRBOTOM=
STRBOTOM=SANDGRAV STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=GENTLE   STRPREC =RED      STRACT  =MINE
STRACT  =SEWAGE   STRACT  =FARM     STRACT  =OTHER    STRACT  =RESID    STRSAMPW=          STRSAMPS=COMPOSIT STRCOLOR=BROWNT
STRWEATH=         STRRAIN =NO
          **********************************************************************


SITE    =NCCL080  LATITUDE= 35.3122 LONGITUD= 81.2322 SAMPDATE=10/15/75 SAMPTIME=840      TEAMS   =K01      DUMMY   =0
PH      = 7.82000 EH      = 127.000 TEMP    = 16.4300 COND    = 71.0000 O2      = 7.51000 SO4     = 29.6239 PO4     = 2.86751
NO3     =0.000000 NH3     =0.000000 ALK     = .280000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=
```


NURE MASTER FILE EDIT

```
        =STREAM   BASIN   =0         STRWIDTH= 40.0000 STRDEPTH= 4.00000 VELOCITY= 1.00000 STRSHAPE=CHANN    STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =ERODED    STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=GENTLE   STRPREC =RED      STRACT  =
STRACT  =CHEM     STRACT  =FARM     STRACT  =OTHER    STRACT  =RESID    STRSAMPW=          STRSAMPS=COMPOSIT STRCOLOR=BROWNT
STRWEATH=         STRRAIN =NO
          **********************************************************************


SITE    =NCCL081  LATITUDE= 35.4255 LONGITUD= 81.2578 SAMPDATE=10/17/75 SAMPTIME=905      TEAMS   =K01      DUMMY   =0
PH      = 7.09000 EH      = 150.000 TEMP    = 18.1900 COND    = 58.0000 O2      = 6.28000 SO4     = 15.2685 PO4     = .898773
NO3     = .067339 NH3     = .241708 ALK     = .180000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0         STRWIDTH= 48.0000 STRDEPTH= 4.00000 VELOCITY= 2.00000 STRSHAPE=CHANN    STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =ERODED    STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =RESID    STRACT  =OTHER    STRACT  =FARM     STRSAMPW=          STRSAMPS=COMPOSIT STRCOLOR=BROWNT
STRWEATH=HEAVY    STRRAIN =YES
          **********************************************************************


SITE    =NCCL082  LATITUDE= 35.3585 LONGITUD= 81.2664 SAMPDATE=11/01/75 SAMPTIME=915      TEAMS   =K01      DUMMY   =0
PH      = 7.68000 EH      = 126.000 TEMP    = 8.46000 COND    = 46.0000 O2      =0.000000 SO4     = 23.5524 PO4     = .787261
NO3     = .048320 NH3     =0.000000 ALK     = .360000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0         STRWIDTH= 32.0000 STRDEPTH= 3.00000 VELOCITY= 1.00000 STRSHAPE=CHANN    STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =FARM     STRACT  =OTHER    STRACT  =RESID    STRSAMPW=          STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=         STRRAIN =NO
          **********************************************************************


SITE    =NCCL083  LATITUDE= 35.4947 LONGITUD= 81.3048 SAMPDATE=11/01/75 SAMPTIME=1115     TEAMS   =K01      DUMMY   =0
PH      = 6.82000 EH      = 94.0000 TEMP    = 9.40000 COND    = 35.0000 O2      = 8.45000 SO4     = 21.1152 PO4     = .514894
NO3     = .028547 NH3     = .081116 ALK     = .280000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0         STRWIDTH= 34.0000 STRDEPTH= 2.00000 VELOCITY= 2.00000 STRSHAPE=CHANN    STRBOTOM=
STRBOTOM=SANDGRAV STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =MINE     STRACT  =FARM     STRACT  =OTHER    STRACT  =RESID    STRSAMPW=          STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=         STRRAIN =NO
          **********************************************************************


SITE    =NCCL084  LATITUDE= 35.4847 LONGITUD= 81.2813 SAMPDATE=10/31/75 SAMPTIME=1600     TEAMS   =K01      DUMMY   =0
PH      = 6.18000 EH      = 106.000 TEMP    = 13.5300 COND    = 44.0000 O2      = 6.33000 SO4     = 12.7652 PO4     = .841376
NO3     = .040680 NH3     = .102498 ALK     = .240000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0         STRWIDTH= 62.0000 STRDEPTH= 6.00000 VELOCITY= 2.00000 STRSHAPE=CHANN    STRBOTOM=SANDGRAV
```

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```
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=GENTLE   STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =FARM     STRACT  =OTHER    STRSAMPW=          STRSAMPS=COMPOSIT STRCOLOR=BROWNT
STRWEATH=         STRRAIN =NO
        **********************************************************************

SITE    =NCCL085  LATITUDE= 35.3269 LONGITUD= 81.1316 SAMPDATE=10/15/75 SAMPTIME=1055     TEAMS   =K01      DUMMY   =0
PH      = 7.04000 EH      = 94.0000 TEMP    = 16.3700 COND    = 53.0000 O2      = 6.98000 SO4     = 36.7676 PO4     = 1.34375
NO3     = .038195 NH3     =0.000000 ALK     = .280000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 20.0000 STRDEPTH= 2.00000 VELOCITY= 1.00000 STRSHAPE=CHANN    STRBOTOM=
STRBOTOM=SANDGRAV STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =RESID    STRACT  =FARM     STRACT  =OTHER    STRSAMPW=          STRSAMPS=COMPOSIT STRCOLOR=BROWNT
STRWEATH=         STRRAIN =NO
        **********************************************************************

SITE    =NCCL086  LATITUDE= 35.4842 LONGITUD= 81.1724 SAMPDATE=11/04/75 SAMPTIME=1615     TEAMS   =K01      DUMMY   =0
PH      = 7.22000 EH      = 57.0000 TEMP    = 14.8700 COND    = 49.0000 O2      = 6.91000 SO4     = 24.4393 PO4     = .641317
NO3     = .026204 NH3     =0.000000 ALK     = .420000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 26.0000 STRDEPTH= 4.00000 VELOCITY= 1.00000 STRSHAPE=TRIANG   STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =FARM     STRACT  =OTHER    STRACT  =RESID    STRSAMPW=          STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=         STRRAIN =NO
        **********************************************************************

SITE    =NCCL087  LATITUDE= 35.3093 LONGITUD= 81.1182 SAMPDATE=10/31/75 SAMPTIME=815      TEAMS   =K01      DUMMY   =0
PH      = 8.70000 EH      = 92.0000 TEMP    = 12.3000 COND    = 183.000 O2      = 8.13000 SO4     = 42.8391 PO4     = 2.33768
NO3     = .040680 NH3     = .081116 ALK     = .580000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 52.0000 STRDEPTH= 4.00000 VELOCITY= 1.00000 STRSHAPE=CHANN    STRBOTOM=
STRBOTOM=SANDGRAV STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =FARM     STRACT  =OTHER    STRACT  =RESID    STRSAMPW=          STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=         STRRAIN =NO
        **********************************************************************

SITE    =NCCL088  LATITUDE= 35.3363 LONGITUD= 81.1339 SAMPDATE=10/30/75 SAMPTIME=1630     TEAMS   =K01      DUMMY   =0
PH      = 7.68000 EH      = 126.000 TEMP    = 14.8800 COND    = 83.0000 O2      = 7.47000 SO4     = 18.9545 PO4     = 1.39232
NO3     = .035740 NH3     = .529922 ALK     = .400000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 26.0000 STRDEPTH= 3.00000 VELOCITY= 2.00000 STRSHAPE=CHANN    STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
```


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```
STRACT  =MINE     STRACT  =FARM     STRACT  =OTHER    STRACT  =RESID    STRSAMPW=          STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=         STRRAIN =NO
        **********************************************************************

SITE    =NCCL089  LATITUDE= 35.3674 LONGITUD= 81.1318 SAMPDATE=10/31/75 SAMPTIME=1100     TEAMS   =K01      DUMMY   =0
PH      = 6.64000 EH      = 116.000 TEMP    = 10.6000 COND    = 39.0000 O2      = 8.56000 SO4     = 15.2685 PO4     = .171309
NO3     = .008367 NH3     =0.000000 ALK     = .320000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 20.0000 STRDEPTH= 2.00000 VELOCITY= 1.00000 STRSHAPE=CHANN    STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=GENTLE   STRPREC =RED      STRACT  =
STRACT  =         STRACT  =FARM     STRACT  =OTHER    STRACT  =RESID    STRSAMPW=          STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=         STRRAIN =NO
        **********************************************************************

SITE    =NCCL090  LATITUDE= 35.4736 LONGITUD= 81.1204 SAMPDATE=11/05/75 SAMPTIME=920      TEAMS   =K01      DUMMY   =0
PH      = 7.19000 EH      = 112.000 TEMP    = 12.2400 COND    = 42.0000 O2      = 8.28000 SO4     = 18.9545 PO4     = 1.55502
NO3     = .026204 NH3     = .039712 ALK     = .400000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 34.0000 STRDEPTH= 3.00000 VELOCITY= 2.00000 STRSHAPE=CHANN    STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=GENTLE   STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =FARM     STRACT  =RESID    STRSAMPW=          STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=         STRRAIN =NO
        **********************************************************************

SITE    =NCCL091  LATITUDE= 35.4184 LONGITUD= 81.0598 SAMPDATE=11/04/75 SAMPTIME=1245     TEAMS   =K01      DUMMY   =0
PH      = 7.28000 EH      = 61.0000 TEMP    = 12.9700 COND    = 38.0000 O2      = 9.04000 SO4     = 16.8979 PO4     = .898773
NO3     = .023888 NH3     = .019653 ALK     = .400000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 56.0000 STRDEPTH= 4.00000 VELOCITY= 2.00000 STRSHAPE=TRAP     STRBOTOM=SAND
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=GENTLE   STRPREC =GREEN    STRACT  =
STRACT  =         STRACT  =MINE     STRACT  =FARM     STRACT  =RESID    STRSAMPW=          STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=         STRRAIN =NO
        **********************************************************************

SITE    =NCCL092  LATITUDE= 35.3697 LONGITUD= 81.0748 SAMPDATE=11/04/75 SAMPTIME=820      TEAMS   =K01      DUMMY   =0
PH      = 7.78000 EH      = 106.000 TEMP    = 11.1600 COND    = 46.0000 O2      = 8.27000 SO4     = 28.4681 PO4     = .439114
NO3     = .030917 NH3     = .081116 ALK     = .400000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 12.0000 STRDEPTH= 2.00000 VELOCITY= 2.00000 STRSHAPE=CHANN    STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=GENTLE   STRPREC =RED      STRACT  =
STRACT  =         STRACT  =FARM     STRACT  =OTHER    STRACT  =RESID    STRSAMPW=          STRSAMPS=COMPOSIT STRCOLOR=
```

NURE MASTER FILE EDIT

```
STRWEATH=          STRRAIN =NO
         **************************************************************************

SITE     =NCCL093  LATITUDE= 35.3216 LONGITUD= 81.0321 SAMPDATE=11/03/75 SAMPTIME=1525      TEAMS    =K01       DUMMY    =0
PH       = 7.68000 EH       = 53.0000 TEMP     = 13.6600 COND     = 90.0000 O2       = 7.94000 SO4      = 9.71364 PO4      = .335727
NO3      = .035740 NH3      = .060194 ALK      = .740000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 12.0000 STRDEPTH= 2.00000 VELOCITY= 1.00000 STRSHAPE=CHANN     STRBOTOM=
STRBOTOM=SANDGRAV  STRBED   =DEPOSIT  STRLEVEL=NORMAL   STRVEG   =MODERATE STRRELIF=GENTLE   STRPREC =NONE      STRACT   =
STRACT   =         STRACT   =FARM     STRACT   =OTHER    STRACT   =RESID    STRSAMPW=          STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=          STRRAIN =NO
         **************************************************************************

SITE     =NCCL094  LATITUDE= 35.3410 LONGITUD= 81.0242 SAMPDATE=11/03/75 SAMPTIME=1615      TEAMS    =K01       DUMMY    =0
PH       = 7.52000 EH       = 75.0000 TEMP     = 12.5200 COND     = 71.0000 O2       = 7.65000 SO4      = 18.6171 PO4      = .555190
NO3      = .026204 NH3      = .019653 ALK      = .580000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 26.0000 STRDEPTH= 4.00000 VELOCITY= 1.00000 STRSHAPE=CHANN     STRBOTOM=
STRBOTOM=SANDGRAV  STRBED   =DEPOSIT  STRLEVEL=NORMAL   STRVEG   =MODERATE STRRELIF=GENTLE   STRPREC =NONE      STRACT   =
STRACT   =         STRACT   =FARM     STRACT   =OTHER    STRACT   =RESID    STRSAMPW=          STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=          STRRAIN =NO
         **************************************************************************

SITE     =NCCL095  LATITUDE= 35.3856 LONGITUD= 81.0349 SAMPDATE=11/04/75 SAMPTIME=1305      TEAMS    =K01       DUMMY    =0
PH       = 7.45000 EH       = 98.0000 TEMP     = 11.5000 COND     = 62.0000 O2       = 8.19000 SO4      = 10.6788 PO4      = .898773
NO3      = .045741 NH3      = .039712 ALK      = .580000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 36.0000 STRDEPTH= 4.00000 VELOCITY= 2.00000 STRSHAPE=CHANN     STRBOTOM=SANDGRAV
STRBOTOM=ROCK      STRBED   =ERODED    STRLEVEL=NORMAL   STRVEG   =MODERATE STRRELIF=GENTLE   STRPREC =NONE      STRACT   =
STRACT   =         STRACT   =MINE     STRACT   =FARM     STRACT   =RESID    STRSAMPW=          STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=          STRRAIN =NO
         **************************************************************************

SITE     =NCCL096  LATITUDE= 35.4184 LONGITUD= 81.0278 SAMPDATE=11/04/75 SAMPTIME=1350      TEAMS    =K01       DUMMY    =0
PH       = 7.68000 EH       = 75.0000 TEMP     = 14.3500 COND     = 68.0000 O2       = 8.07000 SO4      = 21.5004 PO4      = .555190
NO3      = .030917 NH3      = .019653 ALK      = .540000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 42.0000 STRDEPTH= 2.00000 VELOCITY= 2.00000 STRSHAPE=CHANN     STRBOTOM=SANDGRAV
STRBOTOM=ROCK      STRBED   =ERODED    STRLEVEL=NORMAL   STRVEG   =MODERATE STRRELIF=GENTLE   STRPREC =NONE      STRACT   =
STRACT   =         STRACT   =         STRACT   =FARM     STRACT   =RESID    STRSAMPW=          STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=          STRRAIN =NO
```


NURE MASTER FILE EDIT

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         **************************************************************************

SITE     =NCCL097  LATITUDE= 35.4256 LONGITUD= 81.3832 SAMPDATE=11/01/75 SAMPTIME=1630      TEAMS    =K01       DUMMY    =0
PH       = 7.12000 EH       = 128.000 TEMP     = 9.02000 COND     = 31.0000 O2       = 2.14000 SO4      = 16.0841 PO4      = 2.21126
NO3      = .017092 NH3      = .049900 ALK      = .220000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 20.0000 STRDEPTH= 2.00000 VELOCITY= 2.00000 STRSHAPE=TRAP      STRBOTOM=SANDGRAV
STRBOTOM=ROCK      STRBED   =ERODED    STRLEVEL=NORMAL   STRVEG   =MODERATE STRRELIF=GENTLE   STRPREC =NONE      STRACT   =
STRACT   =         STRACT   =         STRACT   =FARM     STRACT   =RESID    STRSAMPW=          STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=          STRRAIN =NO
         **************************************************************************

SITE     =NCCL098  LATITUDE= 35.5000 LONGITUD= 81.3397 SAMPDATE=10/11/75 SAMPTIME=1420      TEAMS    =K01       DUMMY    =0
PH       = 6.24000 EH       = 90.0000 TEMP     = 18.1800 COND     = 39.0000 O2       = 7.87000 SO4      = 15.5408 PO4      = .335727
NO3      = .056256 NH3      =0.000000 ALK      = .120000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 32.0000 STRDEPTH= 3.00000 VELOCITY= 1.00000 STRSHAPE=CHANN     STRBOTOM=SANDGRAV
STRBOTOM=ROCK      STRBED   =ERODED    STRLEVEL=NORMAL   STRVEG   =MODERATE STRRELIF=GENTLE   STRPREC =NONE      STRACT   =
STRACT   =         STRACT   =         STRACT   =         STRACT   =FARM     STRSAMPW=          STRSAMPS=COMPOSIT STRCOLOR=BROWNT
STRWEATH=          STRRAIN =YES
         **************************************************************************

SITE     =NCCL099  LATITUDE= 35.4795 LONGITUD= 81.2664 SAMPDATE=10/31/75 SAMPTIME=1335      TEAMS    =K01       DUMMY    =0
PH       = 6.28000 EH       = 87.0000 TEMP     = 12.1100 COND     = 263.000 O2       = 6.47000 SO4      = 21.1152 PO4      = 3.93631
NO3      = .040680 NH3      = .674307 ALK      = .720000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 52.0000 STRDEPTH= 4.00000 VELOCITY= 2.00000 STRSHAPE=CHANN     STRBOTOM=SANDGRAV
STRBOTOM=ROCK      STRBED   =ERODED    STRLEVEL=NORMAL   STRVEG   =MODERATE STRRELIF=GENTLE   STRPREC =RED       STRACT   =
STRACT   =SEWAGE   STRACT   =FARM     STRACT   =OTHER    STRACT   =RESID    STRSAMPW=          STRSAMPS=COMPOSIT STRCOLOR=BROWNT
STRWEATH=          STRRAIN =NO
         **************************************************************************

SITE     =NCCL101  LATITUDE= 35.3457 LONGITUD= 81.5876 SAMPDATE=10/07/75 SAMPTIME=805       TEAMS    =K01       DUMMY    =0
PH       = 8.39000 EH       = 190.000 TEMP     = 17.9400 COND     = 123.000 O2       = 7.04000 SO4      = 14.9955 PO4      = .303632
NO3      = .517741 NH3      = .019653 ALK      = .540000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

         =GROUND   WELOR    =WELL     WELDEPTH=56       WELSCREN=0        WELAGE  =5        WELAGEP =5         WELTYPE =DUG
WELCASE  =UNKNOWN  WELCLAS  =SEMIPRIV WELPOINT=AFTERSTO WELPIPE =         WELPIPE =         WELTREAT=          WELTREAT=
WELTREAT=NONE      WELUSE   =HUMAAN   WELAPPER=         WELODOR =         WELACT  =         WELACT  =          WELACT  =
WELACT   =         WELACT   =FARM     WELFREQ =CONSTANT
         **************************************************************************
```

NURE MASTER FILE EDIT

```
SITE     =NCCL102  LATITUDE= 35.3504 LONGITUD= 81.5356 SAMPDATE= 9/27/75 SAMPTIME=1150     TEAMS    =K01      DUMMY    =0
PH       = 5.15000 EH       = 385.000 TEMP     = 16.7100 COND     = 105.000 O2       = 1.75000 SO4      = 35.9201 PO4      = 1.05963
NO3      = .067339 NH3      =0.000000 ALK      = .220000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE  =
ROCKTYPE=

         =GROUND   WELOR    =WELL     WELDEPTH=265      WELSCREN=0        WELAGE   =15       WELAGEP  =15       WELTYPE  =DRILLED
WELCASE  =YES      WELCLAS  =PRIVATE  WELPOINT=AFTERSTO WELPIPE  =PLASTIC WELPIPE  =         WELTREAT=          WELTREAT=
WELTREAT=NONE      WELUSE   =HUMAAN   WELAPPER=CLEAR    WELODOR  =NONE    WELACT   =         WELACT   =         WELACT   =
WELACT   =         WELACT   =FARM     WELFREQ  =CONSTANT
           **********************************************************************

SITE     =NCCL103  LATITUDE= 35.3327 LONGITUD= 81.5192 SAMPDATE= 9/27/75 SAMPTIME=950      TEAMS    =K01      DUMMY    =0
PH       = 7.60000 EH       = 164.000 TEMP     = 19.6400 COND     = 161.000 O2       = 4.25000 SO4      = 31.5007 PO4      = .421079
NO3      = .038195 NH3      =0.000000 ALK      = .640000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE  =
ROCKTYPE=

         =GROUND   WELOR    =WELL     WELDEPTH=20       WELSCREN=0        WELAGE   =10       WELAGEP  =10       WELTYPE  =DRILLED
WELCASE  =YES      WELCLAS  =PRIVATE  WELPOINT=         WELPIPE  =PLASTIC WELPIPE  =         WELTREAT=          WELTREAT=
WELTREAT=NONE      WELUSE   =HUMAAN   WELAPPER=CLEAR    WELODOR  =NONE    WELACT   =         WELACT   =         WELACT   =
WELACT   =         WELACT   =FARM     WELFREQ  =CONSTANT
           **********************************************************************

SITE     =NCCL104  LATITUDE= 35.3392 LONGITUD= 81.4900 SAMPDATE= 9/29/75 SAMPTIME=1645     TEAMS    =K01      DUMMY    =0
PH       = 7.45000 EH       = 81.0000 TEMP     = 18.2800 COND     = 129.000 O2       = 1.05000 SO4      = 38.5848 PO4      = .991972
NO3      = .035740 NH3      = .124358 ALK      = .580000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE  =
ROCKTYPE=

         =GROUND   WELOR    =WELL     WELDEPTH=0        WELSCREN=0        WELAGE   =7        WELAGEP  =0        WELTYPE  =DRILLED
WELCASE  =YES      WELCLAS  =PRIVATE  WELPOINT=AFTERSTO WELPIPE  =PLASTIC WELPIPE  =         WELTREAT=          WELTREAT=
WELTREAT=NONE      WELUSE   =HUMAAN   WELAPPER=CLEAR    WELODOR  =NONE    WELACT   =         WELACT   =         WELACT   =
WELACT   =         WELACT   =FARM     WELFREQ  =CONSTANT
           **********************************************************************

SITE     =NCCL105  LATITUDE= 35.3421 LONGITUD= 81.4630 SAMPDATE= 9/30/75 SAMPTIME=0        TEAMS    =K01      DUMMY    =0
PH       =0.000000 EH       =0.000000 TEMP     =0.000000 COND     =0.000000 O2       =0.000000 SO4      =0.000000 PO4      =0.000000
NO3      =0.000000 NH3      =0.000000 ALK      =0.000000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE  =
ROCKTYPE=

         =GROUND   WELOR    =WELL     WELDEPTH=52       WELSCREN=0        WELAGE   =0        WELAGEP  =0        WELTYPE  =
WELCASE  =         WELCLAS  =         WELPOINT=         WELPIPE  =PLASTIC WELPIPE  =         WELTREAT=          WELTREAT=
WELTREAT=NONE      WELUSE   =         WELAPPER=         WELODOR  =        WELACT   =         WELACT   =         WELACT   =
WELACT   =         WELACT   =FARM     WELFREQ  =
           **********************************************************************

SITE     =NCCL106  LATITUDE= 35.3416 LONGITUD= 81.4266 SAMPDATE= 9/30/75 SAMPTIME=1800     TEAMS    =K01      DUMMY    =0
```


NURE MASTER FILE EDIT

```
PH       = 4.86000 EH       = 305.000 TEMP     = 17.5300 COND     = 55.0000 O2       = 5.85000 SO4      = 35.1087 PO4      = .687510
NO3      = .101324 NH3      = .091749 ALK      = .120000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE  =
ROCKTYPE=

         =GROUND   WELOR    =WELL     WELDEPTH=50       WELSCREN=0        WELAGE   =10       WELAGEP  =10       WELTYPE  =DRILLED
WELCASE  =YES      WELCLAS  =PRIVATE  WELPOINT=AFTERSTO WELPIPE  =PLASTIC WELPIPE  =         WELTREAT=          WELTREAT=
WELTREAT=NONE      WELUSE   =HUMAAN   WELAPPER=CLEAR    WELODOR  =NONE    WELACT   =         WELACT   =         WELACT   =
WELACT   =         WELACT   =FARM     WELFREQ  =CONSTANT
           **********************************************************************

SITE     =NCCL107  LATITUDE= 35.3380 LONGITUD= 81.4117 SAMPDATE= 9/30/75 SAMPTIME=1845     TEAMS    =K01      DUMMY    =0
PH       = 4.64000 EH       = 341.000 TEMP     = 15.3300 COND     = 101.000 O2       = 1.82000 SO4      = 29.0372 PO4      = .257438
NO3      = .917092 NH3      =0.000000 ALK      = .020000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE  =
ROCKTYPE=

         =GROUND   WELOR    =WELL     WELDEPTH=28       WELSCREN=0        WELAGE   =54       WELAGEP  =0        WELTYPE  =DUG
WELCASE  =UNKNOWN  WELCLAS  =PRIVATE  WELPOINT=WELL     WELPIPE  =        WELPIPE  =         WELTREAT=          WELTREAT=
WELTREAT=NONE      WELUSE   =HUMAAN   WELAPPER=CLEAR    WELODOR  =NONE    WELACT   =         WELACT   =         WELACT   =
WELACT   =         WELACT   =FARM     WELFREQ  =CONSTANT
           **********************************************************************

SITE     =NCCL108  LATITUDE= 35.3468 LONGITUD= 81.3889 SAMPDATE=10/01/75 SAMPTIME=1025     TEAMS    =K01      DUMMY    =0
PH       = 5.27000 EH       = 256.000 TEMP     = 14.1800 COND     = 198.000 O2       = 5.02000 SO4      = 26.3475 PO4      = .959875
NO3      = .130142 NH3      = .146725 ALK      = .820000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE  =
ROCKTYPE=

         =GROUND   WELOR    =WELL     WELDEPTH=40       WELSCREN=0        WELAGE   =0        WELAGEP  =0        WELTYPE  =DUG
WELCASE  =YES      WELCLAS  =PRIVATE  WELPOINT=WELL     WELPIPE  =        WELPIPE  =         WELTREAT=          WELTREAT=
WELTREAT=NONE      WELUSE   =HUMAAN   WELAPPER=CLEAR    WELODOR  =NONE    WELACT   =         WELACT   =         WELACT   =
WELACT   =         WELACT   =FARM     WELFREQ  =WEEKLY
           **********************************************************************

SITE     =NCCL109  LATITUDE= 35.3709 LONGITUD= 81.5748 SAMPDATE=10/07/75 SAMPTIME=1830     TEAMS    =K01      DUMMY    =0
PH       = 5.94000 EH       = 179.000 TEMP     = 15.8500 COND     = 60.0000 O2       = 7.32000 SO4      = 26.3475 PO4      = .131016
NO3      = .329914 NH3      = .124358 ALK      = .100000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE  =
ROCKTYPE=

         =GROUND   WELOR    =WELL     WELDEPTH=50       WELSCREN=0        WELAGE   =0        WELAGEP  =0        WELTYPE  =DUG
WELCASE  =NO       WELCLAS  =PRIVATE  WELPOINT=WELL     WELPIPE  =        WELPIPE  =         WELTREAT=          WELTREAT=
WELTREAT=NONE      WELUSE   =HUMAAN   WELAPPER=CLEAR    WELODOR  =NONE    WELACT   =         WELACT   =         WELACT   =
WELACT   =         WELACT   =FARM     WELFREQ  =CONSTANT
           **********************************************************************

SITE     =NCCL110  LATITUDE= 35.3738 LONGITUD= 81.5548 SAMPDATE=10/07/75 SAMPTIME=1120     TEAMS    =K01      DUMMY    =0
PH       = 5.92000 EH       = 224.000 TEMP     = 17.3200 COND     = 62.0000 O2       = 7.12000 SO4      = 35.1087 PO4      = 2.00000
```

NURE MASTER FILE EDIT

NO3 = .130142 NH3 = .404222 ALK = .020000 FILT = 2000.00 RESIN = 1000.00 FORMNAME= FORMAGE =
ROCKTYPE=

=GROUND WELOR =WELL WELDEPTH=40 WELSCREN=0 WELAGE =70 WELAGEP =8 WELTYPE =DUG
WELCASE =YES WELCLAS =PRIVATE WELPOINT=AFTERSTO WELPIPE =PLASTIC WELPIPE = WELTREAT= WELTREAT=
WELTREAT=NONE WELUSE =HUMAAN WELAPPER=CLEAR WELODOR =NONE WELACT = WELACT = WELACT =
WELACT = WELACT =FARM WELFREQ =CONSTANT

****

SITE =NCCL111 LATITUDE= 35.3633 LONGITUD= 81.5192 SAMPDATE= 9/27/75 SAMPTIME=1405 TEAMS =K01 DUMMY =0
PH = 5.64000 EH = 343.000 TEMP = 17.5800 COND = 212.000 O2 = 4.05000 SO4 = 24.8988 PO4 = .421079
NO3 = .545113 NH3 = .169614 ALK = .340000 FILT = 2000.00 RESIN = 1000.00 FORMNAME= FORMAGE =
ROCKTYPE=

=GROUND WELOR =WELL WELDEPTH=35 WELSCREN=0 WELAGE =20 WELAGEP =0 WELTYPE =DRILLED
WELCASE =YES WELCLAS =PRIVATE WELPOINT=AFTERSTO WELPIPE =PLASTIC WELPIPE = WELTREAT= WELTREAT=
WELTREAT=NONE WELUSE =HUMAAN WELAPPER=CLEAR WELODOR =NONE WELACT = WELACT = WELACT =
WELACT = WELACT =FARM WELFREQ =CONSTANT

****

SITE =NCCL112 LATITUDE= 35.3779 LONGITUD= 81.4843 SAMPDATE= 9/30/75 SAMPTIME=1020 TEAMS =K01 DUMMY =0
PH = 5.40000 EH = 260.000 TEMP = 15.8100 COND = 74.0000 O2 = 7.53000 SO4 = 23.1240 PO4 = .597273
NO3 = .142086 NH3 = .241708 ALK = .240000 FILT = 2000.00 RESIN = 1000.00 FORMNAME= FORMAGE =
ROCKTYPE=

=GROUND WELOR =WELL WELDEPTH=0 WELSCREN=0 WELAGE =14 WELAGEP =14 WELTYPE =DRILLED
WELCASE =YES WELCLAS =SEMIPRIV WELPOINT=AFTERSTO WELPIPE =PLASTIC WELPIPE = WELTREAT= WELTREAT=
WELTREAT=NONE WELUSE =HUMAAN WELAPPER=CLEAR WELODOR =NONE WELACT = WELACT = WELACT =
WELACT = WELACT =FARM WELFREQ =CONSTANT

****

SITE =NCCL113 LATITUDE= 35.3650 LONGITUD= 81.4722 SAMPDATE= 9/30/75 SAMPTIME=815 TEAMS =K01 DUMMY =0
PH = 5.80000 EH = 242.000 TEMP = 19.0900 COND = 52.0000 O2 = 6.50000 SO4 = 29.6239 PO4 = .736072
NO3 = .134047 NH3 =0.000000 ALK = .200000 FILT = 2000.00 RESIN = 1000.00 FORMNAME= FORMAGE =
ROCKTYPE=

=GROUND WELOR =WELL WELDEPTH=54 WELSCREN=0 WELAGE =14 WELAGEP =14 WELTYPE =DRILLED
WELCASE =YES WELCLAS =PRIVATE WELPOINT=AFTERSTO WELPIPE =PLASTIC WELPIPE = WELTREAT= WELTREAT=
WELTREAT=NONE WELUSE =HUMAAN WELAPPER=CLEAR WELODOR =NONE WELACT = WELACT = WELACT =
WELACT = WELACT =FARM WELFREQ =CONSTANT

****

SITE =NCCL114 LATITUDE= 35.3644 LONGITUD= 81.4352 SAMPDATE= 9/30/75 SAMPTIME=1400 TEAMS =K01 DUMMY =0
PH = 5.81000 EH = 210.000 TEMP = 16.5700 COND = 67.0000 O2 = 7.05000 SO4 = 22.7050 PO4 = .303632
NO3 = .073113 NH3 = .217079 ALK = .280000 FILT = 2000.00 RESIN = 1000.00 FORMNAME= FORMAGE =

NURE MASTER FILE EDIT

ROCKTYPE=

=GROUND WELOR =WELL WELDEPTH=30 WELSCREN=0 WELAGE =0 WELAGEP =0 WELTYPE =DUG
WELCASE =YES WELCLAS =PRIVATE WELPOINT=WELL WELPIPE = WELPIPE = WELTREAT= WELTREAT=
WELTREAT=NONE WELUSE =HUMAAN WELAPPER=CLEAR WELODOR =NONE WELACT = WELACT = WELACT =
WELACT = WELACT =FARM WELFREQ =CONSTANT

****

SITE =NCCL115 LATITUDE= 35.3762 LONGITUD= 81.4181 SAMPDATE= 9/30/75 SAMPTIME=1545 TEAMS =K01 DUMMY =0
PH = 5.85000 EH = 217.000 TEMP = 17.8000 COND = 79.0000 O2 = 7.17000 SO4 = 24.4393 PO4 = .898773
NO3 = .073113 NH3 =0.000000 ALK = .340000 FILT = 2000.00 RESIN = 1000.00 FORMNAME= FORMAGE =
ROCKTYPE=

=GROUND WELOR =WELL WELDEPTH=43 WELSCREN=0 WELAGE =18 WELAGEP =3 WELTYPE =DRILLED
WELCASE =YES WELCLAS =PRIVATE WELPOINT=AFTERSTO WELPIPE =PLASTIC WELPIPE = WELTREAT= WELTREAT=
WELTREAT=NONE WELUSE =HUMAAN WELAPPER=CLEAR WELODOR =NONE WELACT = WELACT = WELACT =
WELACT = WELACT =FARM WELFREQ =CONSTANT

****

SITE =NCCL116 LATITUDE= 35.3815 LONGITUD= 81.5648 SAMPDATE=10/07/75 SAMPTIME=1450 TEAMS =K01 DUMMY =0
PH = 4.95000 EH = 162.000 TEMP = 19.6100 COND = 75.0000 O2 = 4.35000 SO4 = 36.7676 PO4 = .272586
NO3 = .142086 NH3 = .449478 ALK = .100000 FILT = 2000.00 RESIN = 1000.00 FORMNAME= FORMAGE =
ROCKTYPE=

=GROUND WELOR =WELL WELDEPTH=30 WELSCREN=0 WELAGE =0 WELAGEP =0 WELTYPE =DUG
WELCASE =YES WELCLAS =PRIVATE WELPOINT=WELL WELPIPE = WELPIPE = WELTREAT= WELTREAT=
WELTREAT=NONE WELUSE =HUMAAN WELAPPER=CLEAR WELODOR =NONE WELACT = WELACT = WELACT =
WELACT = WELACT =FARM WELFREQ =CONSTANT

****

SITE =NCCL117 LATITUDE= 35.3856 LONGITUD= 81.5392 SAMPDATE=10/04/75 SAMPTIME=1450 TEAMS =K01 DUMMY =0
PH = 4.27000 EH = 167.000 TEMP = 16.6400 COND = 604.000 O2 = 6.78000 SO4 = 7.55108 PO4 = .687510
NO3 = 2.09109 NH3 =0.000000 ALK = .200000 FILT = 2000.00 RESIN = 1000.00 FORMNAME= FORMAGE =
ROCKTYPE=

=GROUND WELOR =WELL WELDEPTH=60 WELSCREN=0 WELAGE =0 WELAGEP =0 WELTYPE =DUG
WELCASE =YES WELCLAS =PRIVATE WELPOINT=WELL WELPIPE = WELPIPE = WELTREAT= WELTREAT=
WELTREAT=NONE WELUSE =HUMAAN WELAPPER=CLEAR WELODOR =NONE WELACT = WELACT = WELACT =
WELACT = WELACT =FARM WELFREQ =CONSTANT

****

SITE =NCCL118 LATITUDE= 35.3920 LONGITUD= 81.5221 SAMPDATE=10/04/75 SAMPTIME=1145 TEAMS =K01 DUMMY =0
PH = 4.40000 EH = 201.000 TEMP = 16.2500 COND = 62.0000 O2 = 5.28000 SO4 = 20.3675 PO4 = .242527
NO3 = .246799 NH3 = .019653 ALK = .120000 FILT = 2000.00 RESIN = 1000.00 FORMNAME= FORMAGE =
ROCKTYPE=

NURE MASTER FILE EDIT

```
        =GROUND   WELOR   =SPRING   WELDEPTH=4          WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =
WELCASE =         WELCLAS =         WELPOINT=          WELPIPE =         WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=          WELDOOR =         WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          **********************************************************************


SITE    =NCCL119  LATITUDE= 35.3985 LONGITUD= 81.5285 SAMPDATE=10/04/75 SAMPTIME=1100     TEAMS   =K01      DUMMY   =0
PH      = 6.80000 EH      = 156.000 TEMP    = 15.9300 COND    = 186.000 O2      = 4.71000 SO4     = 46.7979 PO4     = 1.02520
NO3     = .209425 NH3     =0.000000 ALK     = .480000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=300        WELSCREN=0        WELAGE  =30       WELAGEP =0        WELTYPE =DRILLED
WELCASE =UNKNOWN  WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          **********************************************************************


SITE    =NCCL120  LATITUDE= 35.3879 LONGITUD= 81.4843 SAMPDATE=10/01/75 SAMPTIME=1625     TEAMS   =K01      DUMMY   =0
PH      = 4.03000 EH      = 279.000 TEMP    = 15.2600 COND    = 673.000 O2      = 5.30000 SO4     = 4.70018 PO4     = .421079
NO3     = 8.24785 NH3     =0.000300 ALK     =0.000000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=50         WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =DUG
WELCASE =UNKNOWN  WELCLAS =PRIVATE  WELPOINT=WELL       WELPIPE =         WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          **********************************************************************


SITE    =NCCL121  LATITUDE= 35.3727 LONGITUD= 81.4658 SAMPDATE=10/01/75 SAMPTIME=1220     TEAMS   =K01      DUMMY   =0
PH      = 5.42000 EH      = 217.000 TEMP    = 16.9000 COND    = 104.000 O2      = 6.98000 SO4     = 26.8560 PO4     = 1.25352
NO3     = .418219 NH3     =0.000000 ALK     = .160000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=35         WELSCREN=0        WELAGE  =0        WELAGEP =1        WELTYPE =DRILLED
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          **********************************************************************


SITE    =NCCL122  LATITUDE= 35.3897 LONGITUD= 81.4516 SAMPDATE=10/01/75 SAMPTIME=1425     TEAMS   =K01      DUMMY   =0
PH      = 8.35000 EH      = 183.000 TEMP    = 17.4100 COND    = 117.000 O2      = 6.50000 SO4     = 33.5827 PO4     = .476246
NO3     = .091483 NH3     = .229316 ALK     = .780000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=45         WELSCREN=0        WELAGE  =3        WELAGEP =3        WELTYPE =DRILLED
```


NURE MASTER FILE EDIT

```
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          **********************************************************************


SITE    =NCCL123  LATITUDE= 35.3721 LONGITUD= 81.5712 SAMPDATE=10/07/75 SAMPTIME=1745     TEAMS   =K01      DUMMY   =0
PH      = 5.60000 EH      = 172.000 TEMP    = 18.3800 COND    = 200.000 O2      = 7.02000 SO4     = 25.3696 PO4     = 1.34375
NO3     = .375655 NH3     =0.000000 ALK     = .940000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=0          WELSCREN=0        WELAGE  =7        WELAGEP =7        WELTYPE =DUG
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=AFTERSTU WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          **********************************************************************


SITE    =NCCL124  LATITUDE= 35.3979 LONGITUD= 81.5413 SAMPDATE=10/04/75 SAMPTIME=1000     TEAMS   =K01      DUMMY   =0
PH      = 5.55000 EH      = 192.000 TEMP    = 16.0500 COND    = 102.000 O2      = 6.05000 SO4     = 39.5627 PO4     = .421079
NO3     = .097991 NH3     = .333181 ALK     = .380000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=40         WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =DUG
WELCASE =UNKNOWN  WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          **********************************************************************


SITE    =NCCL125  LATITUDE= 35.4149 LONGITUD= 81.4979 SAMPDATE= 9/25/75 SAMPTIME=925      TEAMS   =K01      DUMMY   =0
PH      = 5.50000 EH      = 287.000 TEMP    = 15.3500 COND    = 141.000 O2      = 4.81000 SO4     = 30.8544 PO4     = 1.82738
NO3     = .233569 NH3     = .967229 ALK     = .060000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=0          WELSCREN=0        WELAGE  =40       WELAGEP =0        WELTYPE =DUG
WELCASE =NO       WELCLAS =PRIVATE  WELPOINT=WELL       WELPIPE =         WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=SLHAZY   WELDOOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          **********************************************************************


SITE    =NCCL126  LATITUDE= 35.4020 LONGITUD= 81.4708 SAMPDATE=10/01/75 SAMPTIME=1805     TEAMS   =K01      DUMMY   =0
PH      = 5.28000 EH      = 260.000 TEMP    = 18.4600 COND    = 93.0000 O2      = 6.92000 SO4     = 35.1087 PO4     = .597273
NO3     = .718799 NH3     =0.000000 ALK     = .040000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=35         WELSCREN=0        WELAGE  =40       WELAGEP =1        WELTYPE =DUG
WELCASE =NO       WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
```

NURE MASTER FILE EDIT

```
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
        ************************************************************************

SITE    =NCCL127  LATITUDE= 35.4331 LONGITUD= 81.5883 SAMPDATE=10/03/75 SAMPTIME=1555     TEAMS   =K01      DUMMY   =0
PH      = 4.80000 EH      = 290.000 TEMP    = 16.1400 COND    = 47.0000 O2      = 3.87000 SO4     = 26.3475 PO4     = .687510
NO3     = .021597 NH3     =0.000000 ALK     = .180000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=0        WELSCREN=0        WELAGE  =5        WELAGEP =0        WELTYPE =DRILLED
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =PLASTIC  WELPIPE =        WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
        ************************************************************************

SITE    =NCCL128  LATITUDE= 35.4354 LONGITUD= 81.5356 SAMPDATE=10/03/75 SAMPTIME=945      TEAMS   =K01      DUMMY   =0
PH      = 6.02000 EH      = 253.000 TEMP    = 14.9800 COND    = 125.000 O2      = 7.46000 SO4     = 48.3239 PO4     = .898773
NO3     = .403028 NH3     = .346981 ALK     = .560000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=55       WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =DUG
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=WELL     WELPIPE =         WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
        ************************************************************************

SITE    =NCCL129  LATITUDE= 35.4360 LONGITUD= 81.5214 SAMPDATE=10/03/75 SAMPTIME=1245     TEAMS   =K01      DUMMY   =0
PH      = 4.06000 EH      = 280.000 TEMP    = 16.8700 COND    = 144.000 O2      = 6.35000 SO4     = 11.2945 PO4     = .213394
NO3     = .493597 NH3     = .019653 ALK     = .020000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=28       WELSCREN=0        WELAGE  =60       WELAGEP =3        WELTYPE =DUG
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
        ************************************************************************

SITE    =NCCL130  LATITUDE= 35.4302 LONGITUD= 81.4786 SAMPDATE=10/02/75 SAMPTIME=1030     TEAMS   =K01      DUMMY   =0
PH      = 8.53000 EH      = 244.000 TEMP    = 15.9000 COND    = 117.000 O2      = 2.25000 SO4     = 29.6239 PO4     = .619043
NO3     = .021597 NH3     = .019653 ALK     = .660000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=345      WELSCREN=0        WELAGE  =4        WELAGEP =4        WELTYPE =DRILLED
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=EFFER    WELDOOR =STRONG   WELACT  =         WELACT  =         WELACT  =
```


NURE MASTER FILE EDIT

```
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
        ************************************************************************

SITE    =NCCL131  LATITUDE= 35.4472 LONGITUD= 81.4523 SAMPDATE= 9/25/75 SAMPTIME=1700     TEAMS   =K01      DUMMY   =0
PH      = 7.75000 EH      = 4.00000 TEMP    = 16.6000 COND    = 129.000 O2      = 1.40000 SO4     = 45.3850 PO4     = 3.13987
NO3     = .209425 NH3     = 1.04949 ALK     = .660000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=150      WELSCREN=0        WELAGE  =9        WELAGEP =9        WELTYPE =DRILLED
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =WEAK     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
        ************************************************************************

SITE    =NCCL132  LATITUDE= 35.4466 LONGITUD= 81.5335 SAMPDATE=10/02/75 SAMPTIME=1845     TEAMS   =K01      DUMMY   =0
PH      = 4.00000 EH      = 288.000 TEMP    = 17.3300 COND    = 44.0000 O2      = 7.14000 SO4     = 25.3696 PO4     = .898773
NO3     = .340428 NH3     = .102498 ALK     = .060000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=45       WELSCREN=0        WELAGE  =55       WELAGEP =3        WELTYPE =DUG
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =GALV     WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
        ************************************************************************

SITE    =NCCL133  LATITUDE= 35.4407 LONGITUD= 81.4929 SAMPDATE=10/02/75 SAMPTIME=1400     TEAMS   =K01      DUMMY   =0
PH      = 6.54000 EH      = 159.000 TEMP    = 15.7000 COND    = 122.000 O2      = 2.72000 SO4     = 23.9908 PO4     = 1.68144
NO3     = .035740 NH3     = 1.31046 ALK     = .660000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =DUG
WELCASE =UNKNOWN  WELCLAS =PRIVATE  WELPOINT=PUMP     WELPIPE =         WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
        ************************************************************************

SITE    =NCCL134  LATITUDE= 35.4519 LONGITUD= 81.4943 SAMPDATE=10/02/75 SAMPTIME=1450     TEAMS   =K01      DUMMY   =0
PH      = 5.37000 EH      = 287.000 TEMP    = 15.0200 COND    = 294.000 O2      = 6.05000 SO4     = 14.9955 PO4     = .787261
NO3     = 1.64957 NH3     = .039712 ALK     = .640000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=30       WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =DUG
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=WELL     WELPIPE =         WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
```

NURE MASTER FILE EDIT

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**********************************************************************

SITE     =NCCL135  LATITUDE= 35.4748 LONGITUD= 81.6026 SAMPDATE= 9/25/75 SAMPTIME=1510     TEAMS    =K01      DUMMY    =0
PH       = 6.10000 EH       = 236.000 TEMP     = 16.9500 COND     = 116.000 O2       = 5.90000 SO4      = 24.8988 PO4      = 1.44351
NO3      = .472000 NH3      = .843922 ALK      = .620000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

         =GROUND   WELOR    =WELL     WELDEPTH=52       WELSCREN=0        WELAGE   =15       WELAGEP =15       WELTYPE =DUG
WELCASE  =UNKNOWN  WELCLAS  =PRIVATE  WELPOINT=AFTERSTO WELPIPE =PLASTIC  WELPIPE  =         WELTREAT=         WELTREAT=
WELTREAT=NONE      WELUSE   =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT   =         WELACT  =         WELACT  =
WELACT   =         WELACT   =FARM     WELFREQ =CONSTANT
**********************************************************************

SITE     =NCCL136  LATITUDE= 35.4765 LONGITUD= 81.5670 SAMPDATE= 9/26/75 SAMPTIME=1515     TEAMS    =K01      DUMMY    =0
PH       = 4.31000 EH       = 312.000 TEMP     = 15.5000 COND     = 42.0000 O2       = 7.39000 SO4      = 29.0372 PO4      = .386010
NO3      = .177826 NH3      =0.000000 ALK      = .020000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

         =GROUND   WELOR    =WELL     WELDEPTH=35       WELSCREN=0        WELAGE   =70       WELAGEP =0        WELTYPE =DRILLED
WELCASE  =NO       WELCLAS  =         WELPOINT=WELL     WELPIPE  =        WELPIPE  =         WELTREAT=         WELTREAT=
WELTREAT=NONE      WELUSE   =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT   =         WELACT  =         WELACT  =
WELACT   =         WELACT   =FARM     WELFREQ =
**********************************************************************

SITE     =NCCL137  LATITUDE= 35.4683 LONGITUD= 81.5577 SAMPDATE= 9/26/75 SAMPTIME=1605     TEAMS    =K01      DUMMY    =0
PH       = 5.69000 EH       = 257.000 TEMP     = 16.1100 COND     = 125.000 O2       = 4.74000 SO4      = 28.4681 PO4      = .736072
NO3      = .050931 NH3      = .124358 ALK      = .620000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

         =GROUND   WELOR    =WELL     WELDEPTH=55       WELSCREN=0        WELAGE   =0        WELAGEP =0        WELTYPE =DUG
WELCASE  =NO       WELCLAS  =PRIVATE  WELPOINT=WELL     WELPIPE  =        WELPIPE  =         WELTREAT=         WELTREAT=
WELTREAT=NONE      WELUSE   =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT   =         WELACT  =         WELACT  =
WELACT   =         WELACT   =FARM     WELFREQ =CONSTANT
**********************************************************************

SITE     =NCCL138  LATITUDE= 35.4666 LONGITUD= 81.5178 SAMPDATE=10/02/75 SAMPTIME=1755     TEAMS    =K01      DUMMY    =0
PH       = 5.07000 EH       = 256.000 TEMP     = 16.5200 COND     = 160.000 O2       = 1.45000 SO4      = 41.6833 PO4      = .352193
NO3      = .659827 NH3      = .039712 ALK      = .300000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

         =GROUND   WELOR    =WELL     WELDEPTH=25       WELSCREN=0        WELAGE   =0        WELAGEP =0        WELTYPE =DUG
WELCASE  =YES      WELCLAS  =PRIVATE  WELPOINT=WELL     WELPIPE  =        WELPIPE  =         WELTREAT=         WELTREAT=
WELTREAT=NONE      WELUSE   =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT   =         WELACT  =         WELACT  =
WELACT   =         WELACT   =FARM     WELFREQ =CONSTANT
**********************************************************************
```


NURE MASTER FILE EDIT

```
SITE     =NCCL139  LATITUDE= 35.4683 LONGITUD= 81.4922 SAMPDATE= 9/26/75 SAMPTIME=1910     TEAMS    =K01      DUMMY    =0
PH       = 5.68000 EH       = 283.000 TEMP     = 15.2200 COND     = 133.000 O2       = 5.23000 SO4      = 15.2685 PO4      = .287981
NO3      = .150454 NH3      =0.000000 ALK      = .660000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

         =GROUND   WELOR    =WELL     WELDEPTH=50       WELSCREN=0        WELAGE   =0        WELAGEP =0        WELTYPE =DUG
WELCASE  =YES      WELCLAS  =PRIVATE  WELPOINT=WELL     WELPIPE  =        WELPIPE  =         WELTREAT=         WELTREAT=
WELTREAT=NONE      WELUSE   =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT   =         WELACT  =         WELACT  =
WELACT   =         WELACT   =FARM     WELFREQ =CONSTANT
**********************************************************************

SITE     =NCCL140  LATITUDE= 35.4977 LONGITUD= 81.5812 SAMPDATE= 9/26/75 SAMPTIME=1210     TEAMS    =K01      DUMMY    =0
PH       = 5.41000 EH       = 264.000 TEMP     = 17.0400 COND     = 36.0000 O2       = 5.65000 SO4      = 15.2685 PO4      = .813933
NO3      = .091493 NH3      =0.000000 ALK      = .100000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

         =GROUND   WELOR    =WELL     WELDEPTH=18       WELSCREN=0        WELAGE   =23       WELAGEP =0        WELTYPE =DRILLED
WELCASE  =YES      WELCLAS  =PRIVATE  WELPOINT=AFTERSTO WELPIPE  =PLASTIC  WELPIPE  =         WELTREAT=         WELTREAT=
WELTREAT=NONE      WELUSE   =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT   =         WELACT  =         WELACT  =
WELACT   =         WELACT   =FARM     WELFREQ =CONSTANT
**********************************************************************

SITE     =NCCL141  LATITUDE= 35.5059 LONGITUD= 81.5356 SAMPDATE=10/09/75 SAMPTIME=1345     TEAMS    =K01      DUMMY    =0
PH       = 5.15000 EH       = 157.000 TEMP     = 17.1100 COND     = 117.000 O2       = 4.99000 SO4      = 45.3850 PO4      = 1.02520
NO3      = .073113 NH3      = .060194 ALK      = .520000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

         =GROUND   WELOR    =WELL     WELDEPTH=52       WELSCREN=0        WELAGE   =20       WELAGEP =0        WELTYPE =DRILLED
WELCASE  =YES      WELCLAS  =PRIVATE  WELPOINT=AFTERSTO WELPIPE  =PLASTIC  WELPIPE  =         WELTREAT=         WELTREAT=
WELTREAT=NONE      WELUSE   =HUMAAN   WELAPPER=CLEAR    WELJODR =NONE     WELACT   =         WELACT  =         WELACT  =
WELACT   =         WELACT   =FARM     WELFREQ =CONSTANT
**********************************************************************

SITE     =NCCL142  LATITUDE= 35.4918 LONGITUD= 81.5028 SAMPDATE=10/09/75 SAMPTIME=1120     TEAMS    =K01      DUMMY    =0
PH       = 4.77000 EH       = 214.000 TEMP     = 16.7300 COND     = 52.0000 O2       = 4.15000 SO4      = 41.6833 PO4      = 1.49762
NO3      = .545113 NH3      =0.000000 ALK      = .080000 FILT     = 2000.00 RESIN    = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

         =GROUND   WELOR    =WELL     WELDEPTH=35       WELSCREN=0        WELAGE   =0        WELAGEP =0        WELTYPE =DUG
WELCASE  =NO       WELCLAS  =PRIVATE  WELPOINT=AFTERSTO WELPIPE  =PLASTIC  WELPIPE  =         WELTREAT=         WELTREAT=
WELTREAT=NONE      WELUSE   =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT   =         WELACT  =         WELACT  =
WELACT   =         WELACT   =FARM     WELFREQ =CONSTANT
**********************************************************************

SITE     =NCCL143  LATITUDE= 35.5235 LONGITUD= 81.5876 SAMPDATE= 9/23/75 SAMPTIME=1705     TEAMS    =K01      DUMMY    =0
```

NURE MASTER FILE EDIT

```
PH      = 6.40000 EH      = 221.000 TEMP    = 16.3230 COND    = 104.000 O2      = 7.44000 SO4     = 30.2292 PO4     = .555190
NO3     = .292540 NH3     = .375182 ALK     = .500000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=70       WELSCREN=0        WELAGE  =2        WELAGEP =2        WELTYPE =
WELCASE =         WELCLAS =         WELPOINT=         WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =         WELAPPER=         WELDOOR =         WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =
          ********************************************************************

SITE    =NCCL144  LATITUDE= 35.5188 LONGITUD= 81.5556 SAMPDATE=10/09/75 SAMPTIME=1545     TEAMS   =K01      DUMMY   =0
PH      = 4.19000 EH      = 206.000 TEMP    = 15.9200 COND    = 18.0000 O2      = 2.15000 SO4     = 42.8391 PO4     = .928833
NO3     = .058971 NH3     = .333181 ALK     = .040000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=60       WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =DUG
WELCASE =NO       WELCLAS =UNKNOWN  WELPOINT=WELL     WELPIPE =         WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =OTHER    WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =
          ********************************************************************

SITE    =NCCL145  LATITUDE= 35.5123 LONGITUD= 81.5078 SAMPDATE= 9/24/75 SAMPTIME=945      TEAMS   =K01      DUMMY   =0
PH      = 6.50000 EH      = 162.000 TEMP    = 16.7100 COND    = 232.000 O2      = 5.72000 SO4     = 26.8560 PO4     = 1.34375
NO3     = .363228 NH3     = .496943 ALK     = .580000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=70       WELSCREN=0        WELAGE  =21       WELAGEP =21       WELTYPE =DUG
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          ********************************************************************

SITE    =NCCL146  LATITUDE= 35.5329 LONGITUD= 81.6403 SAMPDATE= 9/23/75 SAMPTIME=1430     TEAMS   =K01      DUMMY   =0
PH      = 6.03000 EH      = 228.000 TEMP    = 18.4000 COND    = 54.0000 O2      = 6.57000 SO4     = 34.3304 PO4     = 1.68144
NO3     = .142086 NH3     = .360978 ALK     = .260000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=13       WELSCREN=0        WELAGE  =70       WELAGEP =4        WELTYPE =DUG
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          ********************************************************************

SITE    =NCCL147  LATITUDE= 35.5352 LONGITUD= 81.6239 SAMPDATE=10/09/75 SAMPTIME=0        TEAMS   =K01      DUMMY   =0
PH      = 5.41000 EH      = 177.000 TEMP    = 18.9000 COND    = 75.0000 O2      = 5.95000 SO4     = 31.5007 PO4     = 1.17114
```


NURE MASTER FILE EDIT

```
NO3     = .301264 NH3     = .346981 ALK     = .160000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =DUG
WELCASE =UNKNOWN  WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          ********************************************************************

SITE    =NCCL148  LATITUDE= 35.5376 LONGITUD= 81.5399 SAMPDATE= 9/24/75 SAMPTIME=1720     TEAMS   =K01      DUMMY   =0
PH      = 5.93000 EH      = 247.000 TEMP    = 17.3400 COND    = 96.0000 O2      = 5.70000 SO4     = 38.5848 PO4     = .898773
NO3     = .348885 NH3     = .776804 ALK     = .340000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=49       WELSCREN=0        WELAGE  =10       WELAGEP =10       WELTYPE =DRILLED
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          ********************************************************************

SITE    =NCCL149  LATITUDE= 35.5387 LONGITUD= 81.5207 SAMPDATE= 9/24/75 SAMPTIME=1145     TEAMS   =K01      DUMMY   =0
PH      = 5.08000 EH      = 455.000 TEMP    = 17.5300 COND    = 67.0000 O2      = 6.20000 SO4     = 20.3675 PO4     = .959875
NO3     = .329914 NH3     = .529922 ALK     = .180000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=35       WELSCREN=0        WELAGE  =6        WELAGEP =6        WELTYPE =DUG
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          ********************************************************************

SITE    =NCCL150  LATITUDE= 35.5505 LONGITUD= 81.5662 SAMPDATE= 9/24/75 SAMPTIME=1445     TEAMS   =K01      DUMMY   =0
PH      = 6.56000 EH      = 226.000 TEMP    = 19.2700 COND    = 113.000 O2      = 1.85000 SO4     = 33.5827 PO4     = 2.00000
NO3     = .177826 NH3     =0.000000 ALK     = .540000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =
WELCASE =         WELCLAS =SEMIPRIV WELPOINT=AFTERSTO WELPIPE =         WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          ********************************************************************

SITE    =NCCL151  LATITUDE= 35.4542 LONGITUD= 81.6396 SAMPDATE= 9/26/75 SAMPTIME=1015     TEAMS   =K01      DUMMY   =0
PH      = 6.45000 EH      = 237.000 TEMP    = 15.7500 COND    = 199.000 O2      = 5.19000 SO4     = 26.8560 PO4     = 2.00000
NO3     = .056256 NH3     = .039712 ALK     =1.000000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
```

NURE MASTER FILE EDIT

```
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=20       WELSCREN=0        WELAGE  =27       WELAGEP =0        WELTYPE =DUG
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=WELL     WELPIPE =         WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          ********************************************************************

SITE    =NCCL152  LATITUDE= 35.3797 LONGITUD= 81.5225 SAMPDATE=10/09/75 SAMPTIME=905      TEAMS   =K01      DUMMY   =0
PH      = 6.42000 EH      = 203.000 TEMP    = 15.8900 COND    = 120.000 O2      = 1.25000 SO4     = 30.2292 PO4     = 1.90976
NO3     = .073113 NH3     =0.000000 ALK     = .160000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=40       WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =DUG
WELCASE =NO       WELCLAS =PRIVATE  WELPOINT=WELL     WELPIPE =         WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          ********************************************************************

SITE    =NCCL153  LATITUDE= 35.1972 LONGITUD= 81.5100 SAMPDATE=10/29/75 SAMPTIME=1125     TEAMS   =K01      DUMMY   =0
PH      = 8.12000 EH      = 76.0000 TEMP    = 17.7000 COND    = 133.000 O2      = 2.90000 SO4     = 12.4774 PO4     = 2.00000
NO3     = .021597 NH3     =0.000000 ALK     = 1.14000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =DRILLED
WELCASE =UNKNOWN  WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =         WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =OTHER    WELACT  =DUMP     WELACT  =RESID
WELACT  =MINE     WELACT  =FARM     WELFREQ =CONSTANT
          ********************************************************************

SITE    =NCCL154  LATITUDE= 35.2342 LONGITUD= 81.4765 SAMPDATE=10/28/75 SAMPTIME=1725     TEAMS   =K01      DUMMY   =0
PH      = 7.30000 EH      = 78.0000 TEMP    = 17.6800 COND    = 58.0000 O2      = 6.85000 SO4     = 14.4468 PO4     = 1.34375
NO3     = .329914 NH3     =0.000000 ALK     = .240000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=17       WELSCREN=0        WELAGE  =1        WELAGEP =1        WELTYPE =DUG
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =         WELACT  =OTHER    WELACT  =RESID
WELACT  =MINE     WELACT  =FARM     WELFREQ =CONSTANT
          ********************************************************************

SITE    =NCCL155  LATITUDE= 35.2653 LONGITUD= 81.4195 SAMPDATE=10/28/75 SAMPTIME=1615     TEAMS   =K01      DUMMY   =0
PH      = 7.50000 EH      = 94.0000 TEMP    = 17.9400 COND    = 75.0000 O2      = 4.81000 SO4     = 8.31741 PO4     = 1.55502
NO3     = .073113 NH3     =0.000000 ALK     = .620000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=
```


NURE MASTER FILE EDIT

```
        =GROUND   WELOR   =WELL     WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =DRILLED
WELCASE =UNKNOWN  WELCLAS =SEMIPRIV WELPOINT=AFTERSTO WELPIPE =         WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =MINE     WELACT  =FARM     WELFREQ =CONSTANT
          ********************************************************************

SITE    =NCCL156  LATITUDE= 35.2029 LONGITUD= 81.4338 SAMPDATE=10/28/75 SAMPTIME=1430     TEAMS   =K01      DUMMY   =0
PH      = 6.50000 EH      = 108.000 TEMP    = 16.9200 COND    = 59.0000 O2      = 7.88000 SO4     = 18.6171 PO4     = .687510
NO3     = .040680 NH3     = .019653 ALK     = .560000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=65       WELSCREN=0        WELAGE  =16       WELAGEP =0        WELTYPE =DRILLED
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=CHLOR    WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =MINE     WELACT  =FARM     WELFREQ =CONSTANT
          ********************************************************************

SITE    =NCCL157  LATITUDE= 35.2917 LONGITUD= 81.4231 SAMPDATE=10/28/75 SAMPTIME=1140     TEAMS   =K01      DUMMY   =0
PH      = 7.08000 EH      = 124.000 TEMP    = 17.3800 COND    = 111.000 O2      = 7.41000 SO4     = 15.2685 PO4     = .459875
NO3     = .189179 NH3     = .102498 ALK     = .820000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=0        WELSCREN=0        WELAGE  =7        WELAGEP =0        WELTYPE =DRILLED
WELCASE =YES      WELCLAS =SEMIPRIV WELPOINT=AFTERSTO WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =MINE     WELACT  =FARM     WELFREQ =CONSTANT
          ********************************************************************

SITE    =NCCL158  LATITUDE= 35.3058 LONGITUD= 81.4152 SAMPDATE=10/28/75 SAMPTIME=935      TEAMS   =K01      DUMMY   =0
PH      = 7.32000 EH      = 123.000 TEMP    = 15.7200 COND    = 69.0000 O2      = 5.99000 SO4     = 6.26682 PO4     = .641317
NO3     = .227261 NH3     =0.000000 ALK     = .280000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=50       WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =DUG
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=WELL     WELPIPE =         WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =MINE     WELACT  =FARM     WELFREQ =CONSTANT
          ********************************************************************

SITE    =NCCL159  LATITUDE= 35.4859 LONGITUD= 81.5541 SAMPDATE=10/10/75 SAMPTIME=1615     TEAMS   =K01      DUMMY   =0
PH      = 4.10000 EH      = 199.000 TEMP    = 16.4200 COND    = 78.0000 O2      = 4.77000 SO4     = 48.3239 PO4     = 1.02520
NO3     = .177826 NH3     =0.000000 ALK     = .040000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=60       WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =DUG
```

NURE MASTER FILE EDIT

```
WELCASE =NO       WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =PLASTIC  WELPIPE =          WELTREAT=          WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =          WELACT  =          WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          **********************************************************************


SITE    =NCCL161  LATITUDE= 35.4765 LONGITUD= 81.4694 SAMPDATE=11/01/75 SAMPTIME=1540     TEAMS   =K01      DUMMY   =0
PH      = 6.90000 EH      = 136.000 TEMP    = 15.6900 COND    = 105.000 O2      = .380000 SO4     = 9.71364 PO4     = .368950
NO3     = .026204 NH3     = .060194 ALK     = .760000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =DRILLED
WELCASE =YES      WELCLAS =COMMERCL WELPOINT=AFTERSTO WELPIPE =PLASTIC  WELPIPE =          WELTREAT=          WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =          WELACT  =          WELACT  =FARM
WELACT  =OTHER    WELACT  =RESID    WELFREQ =CONSTANT
          **********************************************************************


SITE    =NCCL162  LATITUDE= 35.4437 LONGITUD= 81.4587 SAMPDATE= 9/25/75 SAMPTIME=1200     TEAMS   =K01      DUMMY   =0
PH      = 6.39000 EH      = 246.000 TEMP    = 17.1200 COND    = 97.0000 O2      = 1.51000 SO4     = 18.9545 PO4     =-.080247
NO3     =0.000000 NH3     =0.000000 ALK     = .380000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=140      WELSCREN=0        WELAGE  =10       WELAGEP =10       WELTYPE =DRILLED
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =PLASTIC  WELPIPE =          WELTREAT=          WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =          WELACT  =          WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          **********************************************************************


SITE    =NCCL164  LATITUDE= 35.5088 LONGITUD= 81.4145 SAMPDATE=10/11/75 SAMPTIME=1315     TEAMS   =K01      DUMMY   =0
PH      = 4.80000 EH      = 132.000 TEMP    = 15.2500 COND    = 138.000 O2      = 3.31000 SO4     = 40.5936 PO4     = 1.44351
NO3     = .240078 NH3     =0.000000 ALK     = .120000 FILT    = 2000.00 RESIN   = 100.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=65       WELSCREN=0        WELAGE  =75       WELAGEP =0        WELTYPE =DUG
WELCASE =NO       WELCLAS =PRIVATE  WELPOINT=WELL     WELPIPE =         WELPIPE =          WELTREAT=          WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =          WELACT  =          WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          **********************************************************************


SITE    =NCCL165  LATITUDE= 35.5135 LONGITUD= 81.4095 SAMPDATE=10/11/75 SAMPTIME=1205     TEAMS   =K01      DUMMY   =0
PH      = 4.65000 EH      = 151.000 TEMP    = 16.4200 COND    = 149.000 O2      = 5.49000 SO4     = 23.5524 PO4     = 1.90976
NO3     = 1.50632 NH3     =0.000000 ALK     = .360000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=40       WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =DUG
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=WELL     WELPIPE =         WELPIPE =          WELTREAT=          WELTREAT=REVOS
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NURE MASTER FILE EDIT

```
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =          WELACT  =          WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          **********************************************************************


SITE    =NCCL166  LATITUDE= 35.5141 LONGITUD= 81.4017 SAMPDATE=10/11/75 SAMPTIME=1055     TEAMS   =K01      DUMMY   =0
PH      = 5.80000 EH      = 187.000 TEMP    = 17.1700 COND    = 42.0000 O2      = 6.48000 SO4     = 29.6239 PO4     = 1.13249
NO3     = .177826 NH3     = .449478 ALK     = .140000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=47       WELSCREN=0        WELAGE  =7        WELAGEP =7        WELTYPE =DRILLED
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =PLASTIC  WELPIPE =          WELTREAT=          WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =          WELACT  =          WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          **********************************************************************


SITE    =NCCL167  LATITUDE= 35.4630 LONGITUD= 81.4081 SAMPDATE=11/01/75 SAMPTIME=1400     TEAMS   =K01      DUMMY   =0
PH      = 5.26000 EH      = 171.000 TEMP    = 16.8000 COND    = 57.0000 O2      = 5.55000 SO4     = 4.70018 PO4     = .131016
NO3     = .159179 NH3     = .039712 ALK     = .120000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=50       WELSCREN=0        WELAGE  =20       WELAGEP =0        WELTYPE =DRILLED
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =PLASTIC  WELPIPE =          WELTREAT=          WELTREAT=
WELTREAT=         WELUSE  =         WELAPPER=        WELDOOR =         WELACT  =          WELACT  =MINE      WELACT  =FARM
WELACT  =OTHER    WELACT  =RESID    WELFREQ =CONSTANT
          **********************************************************************


SITE    =NCCL168  LATITUDE= 35.4167 LONGITUD= 81.3718 SAMPDATE=10/16/75 SAMPTIME=920      TEAMS   =K01      DUMMY   =0
PH      = 5.45000 EH      = 164.000 TEMP    = 17.5500 COND    = 32.0000 O2      = 5.95000 SO4     = 5.78668 PO4     = .841376
NO3     = .150454 NH3     =0.000000 ALK     = .040000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=35       WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =DUG
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =PLASTIC  WELPIPE =          WELTREAT=          WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =          WELACT  =          WELACT  =RESID
WELACT  =FARM     WELACT  =OTHER    WELFREQ =CONSTANT
          **********************************************************************


SITE    =NCCL169  LATITUDE= 35.4360 LONGITUD= 81.3348 SAMPDATE=10/16/75 SAMPTIME=1205     TEAMS   =K01      DUMMY   =0
PH      = 5.15000 EH      = 100.000 TEMP    = 16.0500 COND    = 48.0000 O2      = 7.33000 SO4     = 10.3632 PO4     = 2.21126
NO3     = .177326 NH3     = .193057 ALK     = .240000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=55       WELSCREN=0        WELAGE  =6        WELAGEP =6        WELTYPE =DRILLED
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=PUMP     WELPIPE =PLASTIC  WELPIPE =          WELTREAT=          WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =          WELACT  =          WELACT  =
```

NURE MASTER FILE EDIT

```
WELACT  =          WELACT  =FARM      WELFREQ =CONSTANT
          ********************************************************************


SITE    =NCCL170  LATITUDE= 35.4290 LONGITUD= 81.3276 SAMPDATE=10/16/75 SAMPTIME=1515     TEAMS   =K01      DUMMY   =0
PH      = 4.52000 EH      = 127.000 TEMP    = 18.6200 COND    = 58.0000 O2      = 5.68000 SO4     = 26.3475 PO4     = 1.39232
NO3     = .292540 NH3     =0.000000 ALK     = .120000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=84       WELSCREN=0        WELAGE  =3        WELAGEP =3        WELTYPE =DRILLED
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =PLASTIC  WELPIPE =        WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =        WELACT  =         WELACT  =
WELACT  =MINE     WELACT  =FARM     WELFREQ =CONSTANT
          ********************************************************************


SITE    =NCCL171  LATITUDE= 35.3844 LONGITUD= 81.3283 SAMPDATE=10/15/75 SAMPTIME=1720     TEAMS   =K01      DUMMY   =0
PH      = 5.29000 EH      = 109.000 TEMP    = 18.1000 COND    = 47.0000 O2      = 6.90000 SO4     =0.000000 PO4     = 4.49386
NO3     = .198342 NH3     = .113368 ALK     = .260000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =DRILLED
WELCASE =         WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =GALV     WELPIPE =        WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =ANIMAL   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =        WELACT  =         WELACT  =
WELACT  =RESID    WELACT  =FARM     WELFREQ =CONSTANT
          ********************************************************************


SITE    =NCCL172  LATITUDE= 35.3862 LONGITUD= 81.2991 SAMPDATE=10/15/75 SAMPTIME=1615     TEAMS   =K01      DUMMY   =0
PH      = 4.73000 EH      = 129.000 TEMP    = 17.6000 COND    = 74.0000 O2      = 6.95300 SO4     = 16.0841 PO4     = .813933
NO3     = .545113 NH3     =0.000000 ALK     = .200000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYP=

       =GROUND   WELOR   =WELL     WELDEPTH=55       WELSCREN=0        WELAGE  =10       WELAGEP =6        WELTYPE =DRILLED
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =PLASTIC  WELPIPE =        WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =        WELACT  =         WELACT  =
WELACT  =MINE     WELACT  =FARM     WELFREQ =CONSTANT
          ********************************************************************


SITE    =NCCL173  LATITUDE= 35.3750 LONGITUD= 81.2956 SAMPDATE=10/16/75 SAMPTIME=1820     TEAMS   =K01      DUMMY   =0
PH      = 4.75000 EH      = 152.000 TEMP    = 15.9700 COND    = 15.0000 O2      = 6.93000 SO4     =0.000000 PO4     = .711479
NO3     = .026204 NH3     =0.000000 ALK     = .020000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=90       WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =DUG
WELCASE =NO       WELCLAS =PRIVATE  WELPOINT=WELL     WELPIPE =         WELPIPE =        WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =        WELACT  =         WELACT  =
WELACT  =MINE     WELACT  =FARM     WELFREQ =CONSTANT
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NURE MASTER FILE EDIT

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          ********************************************************************


SITE    =NCCL174  LATITUDE= 35.3034 LONGITUD= 81.3120 SAMPDATE=10/14/75 SAMPTIME=1750     TEAMS   =K01      DUMMY   =0
PH      = 5.90000 EH      = 178.000 TEMP    = 16.4200 COND    = 189.000 O2      = 4.40000 SO4     = 32.8631 PO4     = .272585
NO3     = .004141 NH3     =0.000000 ALK     = .400000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=35       WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =DUG
WELCASE =UNKNOWN  WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =PLASTIC  WELPIPE =        WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =        WELACT  =         WELACT  =OTHER
WELACT  =FARM     WELACT  =MINE     WELFREQ =CONSTANT
          ********************************************************************


SITE    =NCCL175  LATITUDE= 35.3193 LONGITUD= 81.2934 SAMPDATE=10/14/75 SAMPTIME=1605     TEAMS   =K01      DUMMY   =0
PH      = 6.75000 EH      = 155.000 TEMP    = 20.2600 COND    = 59.0000 O2      = 3.92000 SO4     = 36.7676 PO4     = .898773
NO3     = .118855 NH3     = .564059 ALK     = .180000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=30       WELSCREN=0        WELAGE  =15       WELAGEP =15       WELTYPE =DRILLED
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =PLASTIC  WELPIPE =        WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =        WELACT  =         WELACT  =SMELT
WELACT  =MINE     WELACT  =FARM     WELFREQ =CONSTANT
          ********************************************************************


SITE    =NCCL176  LATITUDE= 35.2506 LONGITUD= 81.2792 SAMPDATE=10/29/75 SAMPTIME=1450     TEAMS   =K01      DUMMY   =0
PH      = 7.62000 EH      = 103.000 TEMP    = 19.2800 COND    = 70.0000 O2      = 7.45000 SO4     = 15.5408 PO4     = 1.75160
NO3     = .150454 NH3     = .081116 ALK     = .520000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=0        WELSCREN=0        WELAGE  =15       WELAGEP =0        WELTYPE =DRILLED
WELCASE =         WELCLAS =COMMERCL WELPOINT=AFTERSTO WELPIPE =         WELPIPE =        WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =        WELACT  =RESID    WELACT  =OTHER
WELACT  =FARM     WELACT  =MINE     WELFREQ =CONSTANT
          ********************************************************************


SITE    =NCCL177  LATITUDE= 35.2547 LONGITUD= 81.2714 SAMPDATE=10/30/75 SAMPTIME=910      TEAMS   =K01      DUMMY   =0
PH      = 7.15000 EH      = 99.0000 TEMP    = 16.1700 COND    = 106.000 O2      = 5.61000 SO4     = 6.26682 PO4     = 1.34375
NO3     = .006243 NH3     =0.000000 ALK     = .920000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=168      WELSCREN=0        WELAGE  =3        WELAGEP =0        WELTYPE =DRILLED
WELCASE =YES      WELCLAS =COMMERCL WELPOINT=AFTERSTO WELPIPE =GALV     WELPIPE =        WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =SEWAGE  WELACT  =RESID    WELACT  =OTHER
WELACT  =MINE     WELACT  =FARM     WELFREQ =CONSTANT
          ********************************************************************
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NURE MASTER FILE EDIT

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SITE    =NCCL178  LATITUDE= 35.1937 LONGITUD= 81.2201 SAMPDATE=10/30/75 SAMPTIME=1505     TEAMS   =K01      DUMMY   =0
PH      = 6.82000 EH      = 122.000 TEMP    = 16.2300 COND    = 50.0000 O2      = 8.12000 SO4     = 13.6142 PO4     = .687510
NO3     = .079056 NH3     = .091749 ALK     = .380000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=157      WELSCREN=0        WELAGE  =25       WELAGEP =0        WELTYPE =DRILLED
WELCASE =YES      WELCLAS =SEMIPRIV WELPOINT=AFTERSTO WELPIPE =PLASTIC  WELPIPE =        WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =       WELACT  =OTHER    WELACT  =RESID
WELACT  =MINE     WELACT  =FARM     WELFREQ =CONSTANT
          **********************************************************************


SITE    =NCCL179  LATITUDE= 35.2259 LONGITUD= 81.2329 SAMPDATE=10/30/75 SAMPTIME=1145     TEAMS   =K01      DUMMY   =0
PH      = 8.37000 EH      = 179.000 TEMP    = 16.2400 COND    = 160.000 O2      = 6.12000 SO4     = 16.0841 PO4     = .898773
NO3     = .284172 NH3     = .113368 ALK     = .840000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=0        WELSCREN=0        WELAGE  =15       WELAGEP =0        WELTYPE =DRILLED
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =GALV     WELPIPE =        WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =       WELACT  =MINE     WELACT  =FARM
WELACT  =OTHER    WELACT  =RESID    WELFREQ =CONSTANT
          **********************************************************************


SITE    =NCCL180  LATITUDE= 35.3110 LONGITUD= 81.2343 SAMPDATE=10/15/75 SAMPTIME=945      TEAMS   =K01      DUMMY   =0
PH      = 5.80000 EH      = 165.000 TEMP    = 17.1400 COND    = 297.000 O2      = 6.35000 SO4     = 16.0841 PO4     = 2.48363
NO3     = 3.29914 NH3     =0.000000 ALK     = .280000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=40       WELSCREN=0        WELAGE  =0        WELAGEP =3        WELTYPE =DUG
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=         WELPIPE =PLASTIC  WELPIPE =        WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =       WELACT  =         WELACT  =RESID
WELACT  =OTHER    WELACT  =FARM     WELFREQ =CONSTANT
          **********************************************************************


SITE    =NCCL181  LATITUDE= 35.4278 LONGITUD= 81.2571 SAMPDATE=10/16/75 SAMPTIME=1615     TEAMS   =K01      DUMMY   =0
PH      = 5.25000 EH      = 93.0000 TEMP    = 17.4000 COND    = 106.000 O2      = 7.05000 SO4     = 13.3333 PO4     = .959875
NO3     = .545113 NH3     = .217079 ALK     = .320000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=154      WELSCREN=0        WELAGE  =24       WELAGEP =1        WELTYPE =DRILLED
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =PLASTIC  WELPIPE =        WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =       WELACT  =         WELACT  =MINE
WELACT  =FARM     WELACT  =RESID    WELFREQ =CONSTANT
          **********************************************************************


SITE    =NCCL182  LATITUDE= 35.3991 LONGITUD= 81.2671 SAMPDATE=11/01/75 SAMPTIME=1020     TEAMS   =K01      DUMMY   =0
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NURE MASTER FILE EDIT

```
PH      = 5.72000 EH      = 129.000 TEMP    = 15.8500 COND    = 39.0000 O2      = 5.70000 SO4     = 27.3783 PO4     = 1.13249
NO3     = .045741 NH3     = .060194 ALK     = .220000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=51       WELSCREN=0        WELAGE  =3        WELAGEP =0        WELTYPE =DRILLED
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=PUMP     WELPIPE =         WELPIPE =        WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =       WELACT  =         WELACT  =FARM
WELACT  =OTHER    WELACT  =RESID    WELFREQ =CONSTANT
          **********************************************************************


SITE    =NCCL183  LATITUDE= 35.4965 LONGITUD= 81.3070 SAMPDATE=11/01/75 SAMPTIME=1210     TEAMS   =K01      DUMMY   =0
PH      = 6.25000 EH      = 122.000 TEMP    = 17.5900 COND    = 41.0000 O2      = 6.88000 SO4     = 23.1240 PO4     = .335727
NO3     = .058971 NH3     = .049900 ALK     = .200000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=30       WELSCREN=0        WELAGE  =6        WELAGEP =0        WELTYPE =DUG
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =GALV     WELPIPE =        WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =       WELACT  =MINE     WELACT  =FARM
WELACT  =OTHER    WELACT  =RESID    WELFREQ =CONSTANT
          **********************************************************************


SITE    =NCCL184  LATITUDE= 35.4947 LONGITUD= 81.2785 SAMPDATE=10/31/75 SAMPTIME=1710     TEAMS   =B01      DUMMY   =0
PH      = 6.20000 EH      = 132.000 TEMP    = 13.8500 COND    = 91.0000 O2      = 5.90000 SO4     = 7.94136 PO4     = .439114
NO3     = .576712 NH3     =0.000000 ALK     = .340000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=60       WELSCREN=0        WELAGE  =12       WELAGEP =12       WELTYPE =DRILLED
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =PLASTIC  WELPIPE =        WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =       WELACT  =         WELACT  =FARM
WELACT  =OTHER    WELACT  =RESID    WELFREQ =CONSTANT
          **********************************************************************


SITE    =NCCL185  LATITUDE= 35.3275 LONGITUD= 81.1823 SAMPDATE=10/15/75 SAMPTIME=1155     TEAMS   =K01      DUMMY   =0
PH      = 5.11000 EH      = 119.000 TEMP    = 17.6000 COND    = 72.0000 O2      = 4.90000 SO4     = 48.3239 PO4     = 2.09975
NO3     = .118855 NH3     = .465042 ALK     = .320000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=80       WELSCREN=0        WELAGE  =15       WELAGEP =0        WELTYPE =DRILLED
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =PLASTIC  WELPIPE =        WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =       WELACT  =         WELACT  =OTHER
WELACT  =RESID    WELACT  =FARM     WELFREQ =MONTHLY
          **********************************************************************


SITE    =NCCL186  LATITUDE= 35.4014 LONGITUD= 81.1695 SAMPDATE=11/04/75 SAMPTIME=1505     TEAMS   =K01      DUMMY   =0
PH      = 6.30000 EH      = 144.000 TEMP    = 16.6000 COND    = 49.0000 O2      = 8.02000 SO4     = 5.78668 PO4     = .869640
```

NURE MASTER FILE EDIT

```
NO3     =0.000000 NH3     =0.000000 ALK     = .380000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=480      WELSCREN=0        WELAGE  =2        WELAGEP =2        WELTYPE =DRILLED
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=CHLOR    WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =FARM
WELACT  =OTHER    WELACT  =RESID    WELFREQ =CONSTANT
          **********************************************************************

SITE    =NCCL187  LATITUDE= 35.3016 LONGITUD= 81.1061 SAMPDATE=10/31/75 SAMPTIME=1000     TEAMS   =K01      DUMMY   =0
PH      = 6.74000 EH      = 120.000 TEMP    = 14.4800 COND    = 44.0000 O2      = 7.07000 SO4     = 21.5004 PO4     = 1.34375
NO3     = .061722 NH3     =0.000000 ALK     = .320000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=130      WELSCREN=0        WELAGE  =15       WELAGEP =0        WELTYPE =DRILLED
WELCASE =YES      WELCLAS =SEMIPRIV WELPOINT=AFTERSTO WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =FARM
WELACT  =OTHER    WELACT  =RESID    WELFREQ =CONSTANT
          **********************************************************************

SITE    =NCCL188  LATITUDE= 35.3369 LONGITUD= 81.1325 SAMPDATE=10/30/75 SAMPTIME=1715     TEAMS   =K01      DUMMY   =0
PH      = 5.28000 EH      = 168.000 TEMP    = 15.6500 COND    = 116.000 O2      = 4.81000 SO4     = 8.31741 PO4     = 2.48363
NO3     = 1.55188 NH3     = .102498 ALK     = .600000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=57       WELSCREN=0        WELAGE  =2        WELAGEP =2        WELTYPE =DRILLED
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =FARM
WELACT  =OTHER    WELACT  =RESID    WELFREQ =CONSTANT
          **********************************************************************

SITE    =NCCL189  LATITUDE= 35.3685 LONGITUD= 81.1339 SAMPDATE=10/31/75 SAMPTIME=1200     TEAMS   =K01      DUMMY   =0
PH      = 5.95000 EH      = 114.000 TEMP    = 16.3100 COND    = 50.0000 O2      = 6.32000 SO4     = 28.4681 PO4     = .303632
NO3     = .048320 NH3     =0.000000 ALK     = .380000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =DRILLED
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =GALV     WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =DUMP
WELACT  =OTHER    WELACT  =RESID    WELFREQ =CONSTANT
          **********************************************************************

SITE    =NCCL190  LATITUDE= 35.4736 LONGITUD= 81.1232 SAMPDATE=11/05/75 SAMPTIME=1020     TEAMS   =K01      DUMMY   =0
PH      = 6.61000 EH      = 139.000 TEMP    = 15.1500 COND    = 68.0000 O2      = 7.55000 SO4     = 7.14416 PO4     = 1.09536
NO3     = .026204 NH3     = .019653 ALK     = .520000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
```


NURE MASTER FILE EDIT

```
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=0        WELSCREN=0        WELAGE  =20       WELAGEP =5        WELTYPE =DUG
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =FARM     WELACT  =RESID    WELFREQ =CONSTANT
          **********************************************************************

SITE    =NCCL191  LATITUDE= 35.4178 LONGITUD= 81.0370 SAMPDATE=11/04/75 SAMPTIME=1155     TEAMS   =K01      DUMMY   =0
PH      = 5.04000 EH      = 98.0000 TEMP    = 16.6800 COND    = 147.000 O2      = 6.21000 SO4     = 8.31741 PO4     = 1.55502
NO3     = .319913 NH3     = .039712 ALK     = .480000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=140      WELSCREN=0        WELAGE  =40       WELAGEP =1        WELTYPE =DRILLED
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=PUMP     WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =MINE
WELACT  =DUMP     WELACT  =RESID    WELFREQ =CONSTANT
          **********************************************************************

SITE    =NCCL192  LATITUDE= 35.3721 LONGITUD= 81.0770 SAMPDATE=11/04/75 SAMPTIME=915      TEAMS   =K01      DUMMY   =0
PH      = 6.55000 EH      = 166.000 TEMP    = 15.0100 COND    = 80.0000 O2      = 6.27000 SO4     = 26.3475 PO4     = .687510
NO3     = .026204 NH3     = .039712 ALK     = .920000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=40       WELSCREN=0        WELAGE  =7        WELAGEP =0        WELTYPE =DRILLED
WELCASE =UNKNOWN  WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =FARM
WELACT  =OTHER    WELACT  =RESID    WELFREQ =CONSTANT
          **********************************************************************

SITE    =NCCL193  LATITUDE= 35.3269 LONGITUD= 81.0292 SAMPDATE=11/03/75 SAMPTIME=1435     TEAMS   =K01      DUMMY   =0
PH      = 6.63000 EH      = 87.0000 TEMP    = 16.4200 COND    = 180.000 O2      = 5.43000 SO4     = 3.30650 PO4     = 1.75160
NO3     = 1.59956 NH3     =0.000000 ALK     = .720000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=30       WELSCREN=0        WELAGE  =25       WELAGEP =0        WELTYPE =DRILLED
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =GALV     WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =FARM
WELACT  =OTHER    WELACT  =RESID    WELFREQ =CONSTANT
          **********************************************************************

SITE    =NCCL194  LATITUDE= 35.3398 LONGITUD= 81.0235 SAMPDATE=11/03/75 SAMPTIME=1700     TEAMS   =K01      DUMMY   =0
PH      = 6.92000 EH      = 102.000 TEMP    = 16.5500 COND    = 159.000 O2      = 6.18000 SO4     = 13.8932 PO4     = 1.02520
NO3     = .108158 NH3     = .019653 ALK     = 1.22000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=          FORMAGE =
ROCKTYPE=
```

NURE MASTER FILE EDIT

```
        =GROUND   WELOR   =WELL     WELDEPTH=98       WELSCREN=0        WELAGE  =2        WELAGEP =0        WELTYPE =DRILLED
WELCASE =YES      WELCLAS =COMMERCL WELPOINT=PUMP     WELPIPE =GALV     WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =IRRIGA   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =FARM     WELACT  =RESID    WELFREQ =CONSTANT
          **********************************************************************


SITE    =NCCL195  LATITUDE= 35.3908 LONGITUD= 81.0406 SAMPDATE=11/04/75 SAMPTIME=1050     TEAMS   =K01      DUMMY   =0
PH      = 6.32000 EH      = 117.000 TEMP    = 16.0000 COND    = 227.000 O2      = 3.76000 SO4     = 27.9154 PO4     = .959875
NO3     = .094711 NH3     =0.000000 ALK     = 1.44000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=160      WELSCREN=0        WELAGE  =7        WELAGEP =0        WELTYPE =DRILLED
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =         WELACT  =         WELACT  =MINE
WELACT  =FARM     WELACT  =RESID    WELFREQ =CONSTANT
          **********************************************************************


SITE    =NCCL196  LATITUDE= 35.4220 LONGITUD= 81.0249 SAMPDATE=11/04/75 SAMPTIME=1435     TEAMS   =K01      DUMMY   =0
PH      = 6.91000 EH      = 84.0000 TEMP    = 16.3000 COND    = 125.000 O2      = 6.28000 SO4     = 9.71364 PO4     = 1.68144
NO3     = .064511 NH3     =0.000000 ALK     = 1.06000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =DRILLED
WELCASE =YES      WELCLAS =COMMERCL WELPOINT=AFTERSTO WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =         WELACT  =         WELACT  =MINE
WELACT  =FARM     WELACT  =RESID    WELFREQ =WEEKLY
          **********************************************************************


SITE    =NCCL197  LATITUDE= 35.4249 LONGITUD= 81.3846 SAMPDATE=11/01/75 SAMPTIME=1710     TEAMS   =K01      DUMMY   =0
PH      = 7.03000 EH      = 152.000 TEMP    = 15.6700 COND    = 104.000 O2      = 4.49000 SO4     = 11.2945 PO4     = .257438
NO3     = .221142 NH3     = .070598 ALK     =0.000000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=60       WELSCREN=0        WELAGE  =10       WELAGEP =0        WELTYPE =DRILLED
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=         WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =RESID    WELACT  =FARM     WELFREQ =CONSTANT
          **********************************************************************


SITE    =NCCL198  LATITUDE= 35.5018 LONGITUD= 81.3405 SAMPDATE=10/11/75 SAMPTIME=1525     TEAMS   =K01      DUMMY   =0
PH      = 4.05000 EH      = 174.000 TEMP    = 16.9000 COND    = 80.0000 O2      = 6.00000 SO4     = 38.5848 PO4     = 1.25352
NO3     = .576712 NH3     =0.000000 ALK     = .060000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=60       WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =DUG
```


NURE MASTER FILE EDIT

```
WELCASE =         WELCLAS =         WELPOINT=         WELPIPE =         WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=         WELDOOR =         WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          **********************************************************************


SITE    =NCCL199  LATITUDE= 35.4818 LONGITUD= 81.2592 SAMPDATE=10/31/75 SAMPTIME=1510     TEAMS   =K01      DUMMY   =0
PH      = 6.43000 EH      = 111.000 TEMP    = 13.3100 COND    = 29.0000 O2      = 6.93000 SO4     = 15.2685 PO4     = .959875
NO3     = .038195 NH3     = .060194 ALK     = .200000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=93       WELSCREN=0        WELAGE  =50       WELAGEP =0        WELTYPE =DRILLED
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=PUMP     WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=         WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =         WELACT  =SEWAGE   WELACT  =FARM
WELACT  =OTHER    WELACT  =RESID    WELFREQ =CONSTANT
          **********************************************************************


SITE    =NCCL200  LATITUDE= 35.1667 LONGITUD= 81.3803 SAMPDATE=10/29/75 SAMPTIME=1445     TEAMS   =K01      DUMMY   =0
PH      = 7.90000 EH      = 115.000 TEMP    = 16.9500 COND    = 181.000 O2      = 6.12000 SO4     = 3.30650 PO4     = .736072
NO3     = 1.81614 NH3     =0.000000 ALK     = .120000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=60       WELSCREN=0        WELAGE  =50       WELAGEP =0        WELTYPE =DUG
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =         WELACT  =         WELACT  =MINE
WELACT  =FARM     WELACT  =OTHER    WELFREQ =CONSTANT
          **********************************************************************


SITE    =NCCL201  LATITUDE=0.000000 LONGITUD=0.000000 SAMPDATE=10/10/75 SAMPTIME=1115     TEAMS   =K01      DUMMY   =0
PH      = 5.25000 EH      = 184.000 TEMP    = 16.1900 COND    = 89.0000 O2      = 3.70000 SO4     = 35.9201 PO4     = .213394
NO3     = .067339 NH3     = .254260 ALK     = .340000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=30       WELSCREN=0        WELAGE  =30       WELAGEP =0        WELTYPE =DUG
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=WELL     WELPIPE =         WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          **********************************************************************


SITE    =NCCL202  LATITUDE=0.000000 LONGITUD=0.000000 SAMPDATE=10/10/75 SAMPTIME=1345     TEAMS   =K01      DUMMY   =0
PH      = 4.65000 EH      = 165.000 TEMP    = 17.8500 COND    = 62.0000 O2      = 3.90000 SO4     = 30.8544 PO4     = .476246
NO3     = .056256 NH3     =0.000000 ALK     = .140000 FILT    = 2000.00 RESIN   = 1000.00 FORMNAME=         FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=40       WELSCREN=0        WELAGE  =70       WELAGEP =0        WELTYPE =DUG
WELCASE =         WELCLAS =PRIVATE  WELPOINT=         WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
```

NURE MASTER FILE EDIT

```
WELTREAT=NONE      WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =          WELACT  =FARM     WELFREQ =CONSTANT
          **********************************************************************


SITE    =NCC0001  LATITUDE= 35.9722 LONGITUD= 81.6336 SAMPDATE= 9/24/75 SAMPTIME=1700     TEAMS   =803      DUMMY   =0
PH      = 6.73000 EH      = 160.000 TEMP    = 17.8000 COND    = 26.0000 02      = 8.41000 SO4     = 10.3632 PO4     = .185132
NO3     = .118855 NH3     = .039712 ALK     = .160000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 25.0000 STRDEPTH= 2.50000 VELOCITY= 2.00000 STRSHAPE=RECT     STRBOTOM=NOTDET
STRBOTOM=NOTDET   STRBED  =DEPOSIT  STRLEVEL=HIGH     STRVEG  =MODERATE STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=LEFT     STRSAMPS=LEFT     STRCOLOR=BROWNC
STRWEATH=CLOUDY   STRRAIN =YES
          **********************************************************************


SITE    =NCC0002  LATITUDE= 35.9795 LONGITUD= 81.6838 SAMPDATE= 9/28/75 SAMPTIME=1345     TEAMS   =803      DUMMY   =0
PH      = 6.83000 EH      = 213.000 TEMP    = 15.5000 COND    = 23.0000 02      = 9.30000 SO4     = 13.8932 PO4     = .439114
NO3     = .050931 NH3     = .019653 ALK     = .100000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 50.0000 STRDEPTH= 3.50000 VELOCITY= 3.30000 STRSHAPE=RECT     STRBOTOM=NOTDET
STRBOTOM=NOTDET   STRBED  =DEPOSIT  STRLEVEL=HIGH     STRVEG  =SPARSE   STRRELIF=HIGH     STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =FARM     STRACT  =RESID    STRSAMPW=RIGHT    STRSAMPS=RIGHT    STRCOLOR=GREEN
STRWEATH=HEAVY    STRRAIN =NO
          **********************************************************************


SITE    =NCC0003  LATITUDE= 35.9693 LONGITUD= 81.6969 SAMPDATE= 9/27/75 SAMPTIME=1705     TEAMS   =803      DUMMY   =0
PH      = 6.65000 EH      = 100.000 TEMP    = 15.0200 COND    = 19.0000 02      = 9.20000 SO4     =0.000000 PO4     = .171309
NO3     = .017092 NH3     = .039712 ALK     = .080000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 8.00000 STRDEPTH= .600000 VELOCITY= 2.00000 STRSHAPE=CHANN    STRBOTOM=NOTDET
STRBOTOM=NOTDET   STRBED  =DEPOSIT  STRLEVEL=HIGH     STRVEG  =SPARSE   STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=         STRRAIN =NO
          **********************************************************************


SITE    =NCC0004  LATITUDE= 35.9627 LONGITUD= 81.7082 SAMPDATE= 9/27/75 SAMPTIME=1500     TEAMS   =803      DUMMY   =0
PH      = 5.79000 EH      = 169.000 TEMP    = 15.0000 COND    = 18.0000 02      = 9.19000 SO4     =0.000000 PO4     = .007886
NO3     = .019332 NH3     = .029631 ALK     = .100000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 11.0000 STRDEPTH= .600000 VELOCITY= 1.10000 STRSHAPE=RECT     STRBOTOM=NOTDET
STRBOTOM=NOTDET   STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =RESID    STRSAMPW=LEFT     STRSAMPS=LEFT     STRCOLOR=
```


NURE MASTER FILE EDIT

```
STRWEATH=         STRRAIN =NO
          **********************************************************************


SITE    =NCC0005  LATITUDE= 35.9532 LONGITUD= 81.7137 SAMPDATE= 9/27/75 SAMPTIME=1400     TEAMS   =803      DUMMY   =0
PH      = 6.70000 EH      = 162.000 TEMP    = 15.2500 COND    = 19.0000 02      = 9.15000 SO4     = 11.8930 PO4     = .105076
NO3     = .045741 NH3     = .029631 ALK     = .120000 FILT    = 1900.00 RESIN   = 500.000 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 8.00000 STRDEPTH= .800000 VELOCITY= 2.00000 STRSHAPE=CHANN    STRBOTOM=NOTDET
STRBOTOM=SANDGRAV STRBED  =DEPOSIT  STRLEVEL=HIGH     STRVEG  =MODERATE STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=RIGHT    STRSAMPS=RIGHT    STRCOLOR=
STRWEATH=         STRRAIN =NO
          **********************************************************************


SITE    =NCC0006  LATITUDE= 35.9428 LONGITUD= 81.7033 SAMPDATE= 9/27/75 SAMPTIME=1115     TEAMS   =803      DUMMY   =0
PH      = 6.55000 EH      = 120.000 TEMP    = 13.7500 COND    = 19.0000 02      = 9.38000 SO4     = 8.31741 PO4     = .007886
NO3     = .026204 NH3     = .029631 ALK     = .100000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 4.00000 STRDEPTH= .800000 VELOCITY= 1.70000 STRSHAPE=RECT     STRBOTOM=NOTDET
STRBOTOM=SANDGRAV STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=         STRRAIN =NO
          **********************************************************************


SITE    =NCC0007  LATITUDE= 35.9356 LONGITUD= 81.6920 SAMPDATE= 9/24/71 SAMPTIME=1500     TEAMS   =801      DUMMY   =0
PH      = 5.77000 EH      = 254.000 TEMP    = 16.9500 COND    = 15.0000 02      = 6.85000 SO4     = 6.71748 PO4     = .007886
NO3     = .045741 NH3     =0.000000 ALK     = .060000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 5.00000 STRDEPTH= 2.00000 VELOCITY= 3.00000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=SANDGRAV STRBED  =DEPOSIT  STRLEVEL=HIGH     STRVEG  =MODERATE STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =RESID    STRSAMPW=         STRSAMPS=LEFT     STRCOLOR=BROWNT
STRWEATH=CLOUDY   STRRAIN =YES
          **********************************************************************


SITE    =NCC0008  LATITUDE= 35.9307 LONGITUD= 81.6838 SAMPDATE= 9/24/75 SAMPTIME=1600     TEAMS   =801      DUMMY   =0
PH      = 7.11000 EH      = 212.000 TEMP    = 18.6200 COND    = 47.0000 02      = 6.99000 SO4     =0.000000 PO4     = .157687
NO3     = .108158 NH3     =0.000000 ALK     = .120000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 20.0000 STRDEPTH= 4.00000 VELOCITY= 1.00000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=SANDGRAV STRBED  =DEPOSIT  STRLEVEL=HIGH     STRVEG  =MODERATE STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =FARM     STRACT  =RESID    STRSAMPW=LEFT     STRSAMPS=COMPOSIT STRCOLOR=BROWNC
STRWEATH=CLOUDY   STRRAIN =YES
```

NURE MASTER FILE EDIT

```
SITE     =NCC0009  LATITUDE= 35.9416 LONGITUD= 81.7481 SAMPDATE=10/03/75 SAMPTIME=1540     TEAMS    =801      DUMMY    =0
PH       = 6.71000 EH      = 360.000 TEMP     = 11.2500 COND     = 7.00000 O2       = 8.40000 SO4      =0.000000 PO4      =-.026132
NO3      = .076953 NH3     =0.000000 ALK      = .060000 FILT     = 2000.00 RESIN    = 500.000 FORMNAME=         FORMAGE  =
ROCKTYPE=

         =STREAM   BASIN   =0         STRWIDTH= 15.0000 STRDEPTH= 1.00000 VELOCITY= 2.00000 STRSHAPE=RECT     STRBOTOM=SAND
STRBOTOM=ROCK      STRBED  =ERODED     STRLEVEL=NORMAL   STRVEG   =FOREST  STRRELIF=HIGH     STRPREC  =RED      STRACT   =
STRACT   =         STRACT  =           STRACT  =         STRACT   =        STRSAMPW=LEFT     STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=          STRRAIN =YES
```

```
SITE     =NCC0010  LATITUDE= 35.8992 LONGITUD= 81.7466 SAMPDATE= 9/24/75 SAMPTIME=1800     TEAMS    =802      DUMMY    =0
PH       = 5.17000 EH      = 274.000 TEMP     = 17.0800 COND     = 12.0000 O2       = 7.19000 SO4      = 5.26868 PO4      = .055233
NO3      = .002060 NH3     = .060194 ALK      = .040000 FILT     = 2000.00 RESIN    = 500.000 FORMNAME=         FORMAGE  =
ROCKTYPE=

         =STREAM   BASIN   =0         STRWIDTH= 30.0000 STRDEPTH= 2.50000 VELOCITY= 3.00000 STRSHAPE=RECT     STRBOTOM=SAND
STRBOTOM=ROCK      STRBED  =ERODED     STRLEVEL=HIGH     STRVEG   =FOREST  STRRELIF=MODERATE STRPREC  =NONE     STRACT   =
STRACT   =         STRACT  =           STRACT  =         STRACT   =        STRSAMPW=LEFT     STRSAMPS=LEFT     STRCOLOR=
STRWEATH=          STRRAIN =YES
```

```
SITE     =NCC0011  LATITUDE= 35.8795 LONGITUD= 81.7419 SAMPDATE= 9/24/75 SAMPTIME=1700     TEAMS    =802      DUMMY    =0
PH       = 6.51000 EH      = 231.000 TEMP     = 17.7200 COND     = 21.0000 O2       = 6.38000 SO4      = 6.26682 PO4      = .092366
NO3      =0.000000 NH3     = .102498 ALK      = .080000 FILT     = 2150.00 RESIN    = 500.000 FORMNAME=         FORMAGE  =
ROCKTYPE=

         =STREAM   BASIN   =0         STRWIDTH= 15.0000 STRDEPTH= 4.00000 VELOCITY= 2.50000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=SANDGRAV  STRBED  =DEPOSIT   STRLEVEL=HIGH     STRVEG   =MODERATE STRRELIF=MODERATE STRPREC  =NONE     STRACT   =
STRACT   =         STRACT  =           STRACT  =FARM     STRACT   =RESID    STRSAMPW=RIGHT    STRSAMPS=RIGHT    STRCOLOR=BROWNT
STRWEATH=CLOUDY    STRRAIN =YES
```

```
SITE     =NCC0012  LATITUDE= 35.8797 LONGITUD= 81.7455 SAMPDATE= 9/24/75 SAMPTIME=1745     TEAMS    =801      DUMMY    =0
PH       = 6.41000 EH      = 102.000 TEMP     = 17.6400 COND     = 21.0000 O2       = 5.83000 SO4      = 4.70018 PO4      = .067450
NO3      =0.000000 NH3     = .081116 ALK      = .080000 FILT     = 2000.00 RESIN    = 500.000 FORMNAME=         FORMAGE  =
ROCKTYPE=

         =STREAM   BASIN   =0         STRWIDTH= 15.0000 STRDEPTH= 1.50000 VELOCITY= 3.00000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=SANDGRAV  STRBED  =DEPOSIT   STRLEVEL=HIGH     STRVEG   =MODERATE STRRELIF=MODERATE STRPREC  =NONE     STRACT   =
STRACT   =         STRACT  =           STRACT  =RESID    STRACT   =FARM     STRSAMPW=LEFT     STRSAMPS=LEFT     STRCOLOR=
STRWEATH=          STRRAIN =YES
```


NURE MASTER FILE EDIT

```
SITE     =NCC0101  LATITUDE= 35.9685 LONGITUD= 81.6321 SAMPDATE= 9/24/75 SAMPTIME=1800     TEAMS    =803      DUMMY    =0
PH       = 6.03000 EH      = 242.000 TEMP     = 18.2500 COND     = 28.0000 O2       = 7.70000 SO4      = 7.55108 PO4      = .157687
NO3      = .014876 NH3     = .039712 ALK      = .260000 FILT     =0.000000 RESIN    = 500.000 FORMNAME=         FORMAGE  =
ROCKTYPE=

         =GROUND   WELOR   =WELL     WELDEPTH=133      WELSCREN=0        WELAGE   =10       WELAGEP  =10       WELTYPE  =DRILLED
WELCASE  =YES      WELCLAS =PRIVATE  WELPOINT=AMERSTU  WELPIPE  =GALV     WELPIPE  =         WELTREAT=          WELTREAT=
WELTREAT=          WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR  =NONE     WELACT   =         WELACT   =         WELACT   =
WELACT   =         WELACT  =         WELFREQ =CONSTANT
```

```
SITE     =NCC0102  LATITUDE= 35.9601 LONGITUD= 81.6841 SAMPDATE= 9/28/75 SAMPTIME=1520     TEAMS    =803      DUMMY    =0
PH       = 6.60000 EH      = 185.000 TEMP     = 19.5000 COND     = 33.0000 O2       = 8.70000 SO4      = 9.37821 PO4      = .476246
NO3      = .043195 NH3     =0.000000 ALK      = .180000 FILT     = 2000.00 RESIN    = 500.000 FORMNAME=         FORMAGE  =
ROCKTYPE=

         =GROUND   WELOR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE   =0        WELAGEP  =0        WELTYPE  =
WELCASE  =         WELCLAS =         WELPOINT=         WELPIPE  =        WELPIPE  =         WELTREAT=          WELTREAT=
WELTREAT=          WELUSE  =         WELAPPER=         WELODOR  =        WELACT   =         WELACT   =         WELACT   =
WELACT   =         WELACT  =         WELFREQ =
```

```
SITE     =NCC0103  LATITUDE= 35.9693 LONGITUD= 81.6952 SAMPDATE= 9/27/75 SAMPTIME=1700     TEAMS    =803      DUMMY    =0
PH       = 6.58000 EH      = 100.000 TEMP     = 16.7000 COND     = 17.0000 O2       = 3.44000 SO4      =0.000000 PO4      = .067450
NO3      = .017092 NH3     = .049900 ALK      = .100000 FILT     = 2000.00 RESIN    = 500.000 FORMNAME=         FORMAGE  =
ROCKTYPE=

         =GROUND   WELOR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE   =0        WELAGEP  =0        WELTYPE  =
WELCASE  =         WELCLAS =         WELPOINT=WELL     WELPIPE  =        WELPIPE  =         WELTREAT=          WELTREAT=
WELTREAT=          WELUSE  =OTHER    WELAPPER=CLEAR    WELODOR  =OTHER    WELACT   =         WELACT   =         WELACT   =
WELACT   =FARM     WELACT  =RESID    WELFREQ =
```

```
SITE     =NCC0104  LATITUDE= 35.9630 LONGITUD= 81.7080 SAMPDATE= 9/25/75 SAMPTIME=1510     TEAMS    =803      DUMMY    =0
PH       = 6.46000 EH      = 148.000 TEMP     = 19.8000 COND     = 61.0000 O2       = 6.97000 SO4      = 10.0417 PO4      = .144257
NO3      = .082092 NH3     = .019653 ALK      = .280000 FILT     = 2000.00 RESIN    = 500.000 FORMNAME=         FORMAGE  =
ROCKTYPE=

         =GROUND   WELOR   =WELL     WELDEPTH=24       WELSCREN=0        WELAGE   =35       WELAGEP  =12       WELTYPE  =DUG
WELCASE  =NO       WELCLAS =PRIVATE  WELPOINT=OTHER    WELPIPE  =GALV     WELPIPE  =PLASTIC  WELTREAT=          WELTREAT=
WELTREAT=NONE      WELUSE  =HUMAAN   WELAPPER=CLEAR    WELUUUR  =NUNE     WELACT   =         WELACT   =         WELACT   =
WELACT   =         WELACT  =RESID    WELFREQ =CONSTANT
```

```
SITE     =NCC0106  LATITUDE= 35.9444 LONGITUD= 81.7006 SAMPDATE= 9/27/75 SAMPTIME=1200     TEAMS    =803      DUMMY    =0
```

NURE MASTER FILE EDIT

```
PH      = 6.44000 EH      = 214.000 TEMP    = 19.5000 COND    = 13.0000 O2      = 8.80000 SO4     = 13.8932 PO4     = .157687
NO3     = .035740 NH3     =0.000000 ALK     = .080000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =
WELCASE =         WELCLAS =PRIVATE  WELPOINT=OTHER    WELPIPE =PLASTIC  WELPIPE =       WELTREAT=         WELTREAT=
WELTREAT=         WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =       WELACT  =         WELACT  =
WELACT  =         WELACT  =         WELFREQ =CONSTANT
          **********************************************************************


SITE    =NCCO107  LATITUDE= 35.9405 LONGITUD= 81.6971 SAMPDATE= 9/24/75 SAMPTIME=1500     TEAMS   =802      DUMMY   =0
PH      = 5.76000 EH      = 264.000 TEMP    = 14.0300 COND    = 14.0000 O2      = 7.05000 SO4     = 3.30650 PO4     = .157687
NO3     = .053576 NH3     =0.000000 ALK     = .120000 FILT    = 2150.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =
WELCASE =         WELCLAS =PRIVATE  WELPOINT=WELL     WELPIPE =         WELPIPE =       WELTREAT=         WELTREAT=
WELTREAT=         WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =       WELACT  =         WELACT  =
WELACT  =         WELACT  =NONE     WELFREQ =CONSTANT
          **********************************************************************


SITE    =NCCO108  LATITUDE= 35.9306 LONGITUD= 81.6931 SAMPDATE= 9/24/75 SAMPTIME=1600     TEAMS   =802      DUMMY   =0
PH      = 5.00000 EH      = 282.000 TEMP    = 14.2100 COND    = 33.0000 O2      = 6.63000 SO4     =0.000000 PO4     = .898773
NO3     = .012683 NH3     =0.000000 ALK     = .280000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =6        WELTYPE =
WELCASE =         WELCLAS =PRIVATE  WELPOINT=OTHER    WELPIPE =PLASTIC  WELPIPE =       WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =       WELACT  =         WELACT  =
WELACT  =         WELACT  =NONE     WELFREQ =CONSTANT
          **********************************************************************


SITE    =NCCO111  LATITUDE= 35.8791 LONGITUD= 81.7406 SAMPDATE= 9/24/75 SAMPTIME=1700     TEAMS   =801      DUMMY   =0
PH      = 5.51000 EH      = 285.000 TEMP    = 16.1500 COND    = 36.0000 O2      = 5.79000 SO4     =0.000000 PO4     = .007886
NO3     = .150454 NH3     = .060194 ALK     = .140000 FILT    = 2150.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =UNKNOWN
WELCASE =UNKNOWN  WELCLAS =PRIVATE  WELPOINT=PUMP   WELPIPE =PLASTIC  WELPIPE =       WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =       WELACT  =         WELACT  =FARM
WELACT  =RESID    WELACT  =DUMP     WELFREQ =CONSTANT
          **********************************************************************


SITE    =NCCO116  LATITUDE= 35.9982 LONGITUD= 81.6843 SAMPDATE= 9/25/75 SAMPTIME=1630     TEAMS   =803      DUMMY   =0
PH      = 5.95000 EH      = 175.000 TEMP    = 17.0000 COND    = 4.00000 O2      = 9.09000 SO4     = 5.78668 PO4     =-.080247
```


NURE MASTER FILE EDIT

```
NO3     = .025204 NH3     = .039712 ALK     = .120000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =15       WELTYPE =
WELCASE =         WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =PLASTIC  WELPIPE =       WELTREAT=         WELTREAT=
WELTREAT=         WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =       WELACT  =         WELACT  =
WELACT  =         WELACT  =         WELFREQ =CONSTANT
          **********************************************************************


SITE    =NCGL001  LATITUDE= 36.0928 LONGITUD= 81.6960 SAMPDATE= 9/28/75 SAMPTIME=1100     TEAMS   =803      DUMMY   =0
PH      = 5.58000 EH      = 270.000 TEMP    = 13.0000 COND    = 31.0000 O2      = 9.57000 SO4     = 14.9955 PO4     =-.037205
NO3     = .142086 NH3     =0.000000 ALK     = .100000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 15.0000 STRDEPTH= .600000 VELOCITY= .700000 STRSHAPE=RECT     STRBOTOM=NOTDET
STRBOTOM=NOTDET   STRBED  =DEPOSIT  STRLEVEL=HIGH     STRVEG  =FOREST   STRRELIF=HIGH     STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=         STRRAIN =NO
          **********************************************************************


SITE    =NCGL002  LATITUDE= 36.0853 LONGITUD= 81.7038 SAMPDATE= 9/25/75 SAMPTIME=1445     TEAMS   =802      DUMMY   =0
PH      = 7.06000 EH      = 219.000 TEMP    = 14.9200 COND    = 92.0000 O2      = 6.92000 SO4     = 3.30650 PO4     = .575996
NO3     = .088305 NH3     =0.000000 ALK     = .140000 FILT    = 1900.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 25.0000 STRDEPTH= 3.00000 VELOCITY= 3.00000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =DEPOSIT  STRLEVEL=HIGH     STRVEG  =MODERATE STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=RIGHT    STRSAMPS=RIGHT    STRCOLOR=
STRWEATH=         STRRAIN =YES
          **********************************************************************


SITE    =NCGL003  LATITUDE= 36.0868 LONGITUD= 81.7073 SAMPDATE= 9/25/75 SAMPTIME=1400     TEAMS   =802      DUMMY   =0
PH      = 7.49000 EH      = 214.000 TEMP    = 15.2400 COND    = 33.0000 O2      = 5.21000 SO4     =0.000000 PO4     = .403383
NO3     = .050931 NH3     =0.000000 ALK     = .220000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 15.0000 STRDEPTH= 1.50000 VELOCITY= 2.50000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =DEPOSIT  STRLEVEL=HIGH     STRVEG  =MODERATE STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=         STRRAIN =YES
          **********************************************************************


SITE    =NCGL004  LATITUDE= 36.0925 LONGITUD= 81.7100 SAMPDATE= 9/24/75 SAMPTIME=1300     TEAMS   =802      DUMMY   =0
PH      = 7.40000 EH      = 298.000 TEMP    = 14.8300 COND    = 30.0000 O2      = 6.10000 SO4     = 6.71748 PO4     = .736072
NO3     = .122549 NH3     =0.000000 ALK     = .140000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
```

NURE MASTER FILE EDIT

```
ROCKTYPE=

        =STREAM   BASIN   =0         STRWIDTH= 30.0000 STRDEPTH= 2.00000 VELOCITY= 2.00000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =ERODED     STRLEVEL=HIGH     STRVEG  =MODERATE STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =          STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=RIGHT    STRCOLOR=
STRWEATH=         STRRAIN =YES
          **********************************************************************


SITE    =NCGL005  LATITUDE= 36.0811 LONGITUD= 81.7372 SAMPDATE= 9/25/75 SAMPTIME=1500     TEAMS   =B01      DUMMY   =0
PH      = 6.87000 EH      = 433.000 TEMP    = 14.9600 COND    = 17.0000 O2      = 7.33000 SO4     = 7.55108 PO4     = .105076
NO3     = .045741 NH3     = .060194 ALK     = .100000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=         FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0         STRWIDTH= 4.00000 STRDEPTH= .500000 VELOCITY= 2.00000 STRSHAPE=RECT     STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =ERODED    STRLEVEL=HIGH     STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =          STRACT  =         STRACT  =         STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=CLOUDY   STRRAIN =YES
          **********************************************************************


SITE    =NCGL006  LATITUDE= 36.0820 LONGITUD= 81.7352 SAMPDATE= 9/25/75 SAMPTIME=1430     TEAMS   =B01      DUMMY   =0
PH      = 6.85000 EH      = 267.000 TEMP    = 14.4300 COND    = 14.0000 O2      = 7.51000 SO4     =0.000000 PO4     =-.037205
NO3     = .058971 NH3     =0.000000 ALK     = .080000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=         FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0         STRWIDTH= 50.0000 STRDEPTH= 2.50000 VELOCITY= 2.50000 STRSHAPE=RECT     STRBOTOM=ROCK
STRBOTOM=SANDGRAV STRBED  =ERODED    STRLEVEL=HIGH     STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =          STRACT  =         STRACT  =         STRSAMPW=RIGHT    STRSAMPS=RIGHT    STRCOLOR=
STRWEATH=CLOUDY   STRRAIN =YES
          **********************************************************************


SITE    =NCGL007  LATITUDE= 36.0689 LONGITUD= 81.6935 SAMPDATE= 9/26/75 SAMPTIME=1115     TEAMS   =B02      DUMMY   =0
PH      = 7.02000 EH      = 186.000 TEMP    = 14.2600 COND    = 31.0000 O2      = 5.83000 SO4     = 9.03446 PO4     = .257438
NO3     = .097991 NH3     =0.000000 ALK     = .180000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=         FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0         STRWIDTH= 20.0000 STRDEPTH= 2.00000 VELOCITY= 2.00000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =DEPOSIT   STRLEVEL=HIGH     STRVEG  =MODERATE STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =          STRACT  =FARM     STRACT  =RESID    STRSAMPW=RIGHT    STRSAMPS=RIGHT    STRCOLOR=
STRWEATH=         STRRAIN =YES
          **********************************************************************


SITE    =NCGL009  LATITUDE= 36.0611 LONGITUD= 81.6927 SAMPDATE= 9/26/75 SAMPTIME=1500     TEAMS   =B02      DUMMY   =0
PH      = 7.14000 EH      = 230.000 TEMP    = 16.3500 COND    = 32.0000 O2      = 5.86000 SO4     = 7.55108 PO4     = .687510
NO3     = .079056 NH3     =0.000000 ALK     = .240000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=         FORMAGE =
ROCKTYPE=
```


NURE MASTER FILE EDIT

```
        =STREAM   BASIN   =0         STRWIDTH= 10.0000 STRDEPTH= 1.00000 VELOCITY= 1.50000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =DEPOSIT   STRLEVEL=HIGH     STRVEG  =MODERATE STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =          STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=RIGHT    STRCOLOR=
STRWEATH=         STRRAIN =YES
          **********************************************************************


SITE    =NCGL009  LATITUDE= 36.0591 LONGITUD= 81.6961 SAMPDATE= 9/26/75 SAMPTIME=1600     TEAMS   =B02      DUMMY   =0
PH      = 6.98000 EH      = 195.000 TEMP    = 14.7300 COND    = 22.0000 O2      = 6.87000 SO4     = 4.06002 PO4     = 1.17114
NO3     = .058971 NH3     = .019653 ALK     = .180000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=         FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0         STRWIDTH= 5.00000 STRDEPTH= .800000 VELOCITY= 1.10000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =DEPOSIT   STRLEVEL=HIGH     STRVEG  =MODERATE STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =          STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=RIGHT    STRCOLOR=
STRWEATH=         STRRAIN =YES
          **********************************************************************


SITE    =NCGL010  LATITUDE= 36.0534 LONGITUD= 81.6907 SAMPDATE= 9/26/75 SAMPTIME=1530     TEAMS   =B01      DUMMY   =0
PH      = 6.70000 EH      = 313.000 TEMP    = 15.3900 COND    = 21.0000 O2      = 7.02000 SO4     = 9.71364 PO4     = .227850
NO3     = .030917 NH3     =0.000000 ALK     = .140000 FILT    = 2100.00 RESIN   = 500.000 FORMNAME=         FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0         STRWIDTH= 9.00000 STRDEPTH= 2.00000 VELOCITY= 1.00000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=SANDGRAV STRBED  =ERODED    STRLEVEL=HIGH     STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =          STRACT  =         STRACT  =FARM     STRSAMPW=RIGHT    STRSAMPS=RIGHT    STRCOLOR=
STRWEATH=         STRRAIN =YES
          **********************************************************************


SITE    =NCGL011  LATITUDE= 36.0583 LONGITUD= 81.7273 SAMPDATE= 9/25/75 SAMPTIME=1200     TEAMS   =B01      DUMMY   =0
PH      = 6.98000 EH      = 298.000 TEMP    = 14.2000 COND    = 18.0000 O2      = 5.70000 SO4     = 12.7652 PO4     =-.037205
NO3     = .061722 NH3     =0.000000 ALK     = .100000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=         FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0         STRWIDTH= 15.0000 STRDEPTH= 1.50000 VELOCITY= 4.00000 STRSHAPE=RECT     STRBOTOM=NOTDET
STRBOTOM=NOTDET   STRBED  =DEPOSIT   STRLEVEL=HIGH     STRVEG  =FOREST   STRRELIF=HIGH     STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =          STRACT  =         STRACT  =         STRSAMPW=RIGHT    STRSAMPS=RIGHT    STRCOLOR=BROWNC
STRWEATH=CLOUDY   STRRAIN =YES
          **********************************************************************


SITE    =NCGL012  LATITUDE= 36.0352 LONGITUD= 81.7105 SAMPDATE= 9/26/75 SAMPTIME=1300     TEAMS   =B01      DUMMY   =0
PH      = 6.27000 EH      = 356.000 TEMP    = 16.1200 COND    = 15.0000 O2      = 7.04000 SO4     = 4.06002 PO4     = .079826
NO3     = .118855 NH3     = .049900 ALK     = .080000 FILT    = 2100.00 RESIN   = 500.000 FORMNAME=         FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0         STRWIDTH= 10.0000 STRDEPTH= 1.50000 VELOCITY= 1.00000 STRSHAPE=CHANN    STRBOTOM=SAND
```

NURE MASTER FILE EDIT

```
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=HIGH     STRVEG  =MODERATE STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =RESID    STRACT  =FARM     STRSAMPW=LEFT     STRSAMPS=LEFT     STRCOLOR=
STRWEATH=         STRRAIN =YES
          **********************************************************************


SITE    =NCGL013  LATITUDE= 36.0309 LONGITUD= 81.7065 SAMPDATE= 9/27/75 SAMPTIME=1200     TEAMS   =801      DUMMY   =0
PH      = 6.58000 EH      = 355.000 TEMP    = 14.7800 COND    = 22.0000 O2      = 7.09000 SO4     = 5.26868 PO4     =-.014928
NO3     = .050931 NH3     = .124358 ALK     = .160000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 9.00000 STRDEPTH= 1.50000 VELOCITY= 2.00000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=SAND     STRBED  =ERODED   STRLEVEL=HIGH     STRVEG  =MODERATE STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =FARM     STRACT  =RESID    STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=         STRRAIN =YES
          **********************************************************************


SITE    =NCGL014  LATITUDE= 36.0300 LONGITUD= 81.6898 SAMPDATE= 9/26/75 SAMPTIME=1130     TEAMS   =801      DUMMY   =0
PH      = 6.77000 EH      = 286.000 TEMP    = 14.9000 COND    = 25.0000 O2      = 7.28000 SO4     = 5.26868 PO4     = .117957
NO3     = .035740 NH3     =0.000000 ALK     = .160000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 5.00000 STRDEPTH= 1.00000 VELOCITY= 1.00000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=SANDGRAV STRBED  =ERODED   STRLEVEL=HIGH     STRVEG  =MODERATE STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=         STRRAIN =YES
          **********************************************************************


SITE    =NCGL015  LATITUDE= 36.0084 LONGITUD= 81.6937 SAMPDATE= 9/25/75 SAMPTIME=1330     TEAMS   =803      DUMMY   =0
PH      = 6.88000 EH      = 190.000 TEMP    = 15.4000 COND    = 16.0000 O2      = 9.19000 SO4     = 16.3554 PO4     = .055233
NO3     = .115227 NH3     =0.000000 ALK     = .100000 FILT    = 1900.00 RESIN   = 500.000 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 10.0000 STRDEPTH= 1.40000 VELOCITY= 2.20000 STRSHAPE=RECT     STRBOTOM=NOTDET
STRBOTOM=NOTDET   STRBED  =DEPOSIT  STRLEVEL=HIGH     STRVEG  =MODERATE STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =RESID    STRSAMPW=         STRSAMPS=         STRCOLOR=BROWNC
STRWEATH=CLOUDY   STRRAIN =YES
          **********************************************************************


SITE    =NCGL016  LATITUDE= 36.0015 LONGITUD= 81.6841 SAMPDATE= 9/25/75 SAMPTIME=1515     TEAMS   =803      DUMMY   =0
PH      = 6.89000 EH      = 178.000 TEMP    = 15.9000 COND    = 18.0000 O2      = 9.03000 SO4     = 10.3632 PO4     = .131015
NO3     = .035740 NH3     =0.000000 ALK     = .120000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=           FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 5.00000 STRDEPTH= .800000 VELOCITY= 2.00000 STRSHAPE=RECT     STRBOTOM=NOTDET
STRBOTOM=NOTDET   STRBED  =DEPOSIT  STRLEVEL=HIGH     STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =RED      STRACT  =
```


NURE MASTER FILE EDIT

```
STRACT  =         STRACT  =         STRACT  =         STRACT  =RESID    STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=         STRRAIN =YES
          **********************************************************************


SITE    =NCGL101  LATITUDE= 36.0907 LONGITUD= 81.6877 SAMPDATE= 9/28/75 SAMPTIME=1220     TEAMS   =803      DUMMY   =0
PH      = 6.30000 EH      = 168.000 TEMP    = 14.2500 COND    = 21.0000 O2      = 9.00000 SO4     =0.000000 PO4     = .031264
NO3     = .021597 NH3     = .060194 ALK     = .120000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=           FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =
WELCASE =         WELCLAS =         WELPOINT=WELL     WELPIPE =         WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=         WELUSE  =         WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =         WELFREQ =
          **********************************************************************


SITE    =NCGL102  LATITUDE= 36.0770 LONGITUD= 81.7023 SAMPDATE= 9/26/75 SAMPTIME=1020     TEAMS   =802      DUMMY   =0
PH      = 6.66000 EH      = 255.000 TEMP    = 18.6300 COND    = 33.0000 O2      = 2.05000 SO4     = 7.14416 PO4     = .421079
NO3     = .101324 NH3     = .292922 ALK     = .200000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=           FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =10       WELTYPE =
WELCASE =         WELCLAS =PRIVATE  WELPOINT=OTHER    WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =DUMP     WELACT  =RESID    WELFREQ =CONSTANT
          **********************************************************************


SITE    =NCGL104  LATITUDE= 36.0785 LONGITUD= 81.7040 SAMPDATE= 9/25/75 SAMPTIME=1530     TEAMS   =802      DUMMY   =0
PH      = 6.52000 EH      = 296.000 TEMP    = 20.9400 COND    = 39.0000 O2      = 2.49000 SO4     = 3.30650 PO4     = .421079
NO3     = .045741 NH3     = .039712 ALK     = .180000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=           FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =6        WELTYPE =
WELCASE =         WELCLAS =PRIVATE  WELPOINT=OTHER    WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =RESID    WELACT  =FARM     WELFREQ =CONSTANT
          **********************************************************************


SITE    =NCGL107  LATITUDE= 36.0696 LONGITUD= 81.6946 SAMPDATE= 9/26/75 SAMPTIME=1200     TEAMS   =802      DUMMY   =0
PH      = 6.49000 EH      = 256.000 TEMP    = 16.4100 COND    = 28.0000 O2      = 8.16000 SO4     = 16.6266 PO4     = .898773
NO3     = .134047 NH3     =0.000000 ALK     = .240000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=           FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =8        WELTYPE =
WELCASE =         WELCLAS =PRIVATE  WELPOINT=OTHER    WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
```

NURE MASTER FILE EDIT

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WELACT  =FARM      WELACT  =RESID     WELFREQ =CONSTANT
          ********************************************************************

SITE    =NCGL108  LATITUDE= 36.0638 LONGITUD= 81.6964 SAMPDATE= 9/25/75 SAMPTIME=1400     TEAMS   =802      DUMMY   =0
PH      = 5.95000 EH      = 306.000 TEMP    = 20.9100 COND    = 35.0000 O2      = 2.37000 SO4     =0.000000 PO4     = .421079
NO3     = .079056 NH3     =0.000000 ALK     = .240000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =12       WELTYPE =
WELCASE =         WELCLAS =PRIVATE  WELPOINT=OTHER    WELPIPE =PLASTIC  WELPIPE =       WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =       WELACT  =         WELACT  =
WELACT  =DUMP     WELACT  =RESID    WELFREQ =CONSTANT
          ********************************************************************

SITE    =NCGL110  LATITUDE= 36.0527 LONGITUD= 81.6947 SAMPDATE= 9/26/75 SAMPTIME=1630     TEAMS   =801      DUMMY   =0
PH      = 5.98000 EH      = 338.000 TEMP    = 16.5800 COND    = 41.0000 O2      = 5.95000 SO4     = 7.55108 PO4     = .403383
NO3     = .085175 NH3     =0.000000 ALK     = .280000 FILT    =0.000000 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=80       WELSCREN=0        WELAGE  =4        WELAGEP =4        WELTYPE =
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=OTHER    WELPIPE =PLASTIC  WELPIPE =       WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =       WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          ********************************************************************

SITE    =NCGL111  LATITUDE= 36.0580 LONGITUD= 81.7293 SAMPDATE= 9/25/75 SAMPTIME=1230     TEAMS   =801      DUMMY   =0
PH      = 5.36000 EH      = 311.000 TEMP    = 15.4800 COND    = 15.0000 O2      = 2.81000 SO4     =0.000000 PO4     = .213394
NO3     =0.000000 NH3     = .019653 ALK     = .080000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =
WELCASE =         WELCLAS =PRIVATE  WELPOINT=OTHER    WELPIPE =PLASTIC  WELPIPE =       WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =       WELACT  =         WELACT  =
WELACT  =         WELACT  =NONE     WELFREQ =MONTHLY
          ********************************************************************

SITE    =NCGL113  LATITUDE= 36.0296 LONGITUD= 81.7093 SAMPDATE= 9/26/75 SAMPTIME=1230     TEAMS   =801      DUMMY   =0
PH      = 6.95000 EH      = 306.000 TEMP    = 13.0400 COND    = 18.0000 O2      = 7.22000 SO4     = 3.30650 PO4     = .242527
NO3     = .045741 NH3     =0.000000 ALK     = .160000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =1        WELTYPE =
WELCASE =         WELCLAS =PRIVATE  WELPOINT=WELL     WELPIPE =PLASTIC  WELPIPE =       WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =       WELACT  =         WELACT  =
WELACT  =         WELACT  =NONE     WELFREQ =CONSTANT
```


NURE MASTER FILE EDIT

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          ********************************************************************

SITE    =NCGL114  LATITUDE= 36.0301 LONGITUD= 81.6858 SAMPDATE= 9/26/75 SAMPTIME=1100     TEAMS   =801      DUMMY   =0
PH      = 5.47000 EH      = 337.000 TEMP    = 14.7400 COND    = 24.0000 O2      = 7.26000 SO4     = 5.26868 PO4     = .439114
NO3     = .043195 NH3     = .113368 ALK     = .180000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =
WELCASE =         WELCLAS =PRIVATE  WELPOINT=WELL     WELPIPE =PLASTIC  WELPIPE =       WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =       WELACT  =         WELACT  =
WELACT  =         WELACT  =         WELFREQ =CONSTANT
          ********************************************************************

SITE    =NCGL115  LATITUDE= 36.0113 LONGITUD= 81.6897 SAMPDATE= 9/25/75 SAMPTIME=1420     TEAMS   =803      DUMMY   =0
PH      = 6.30000 EH      = 230.000 TEMP    = 19.3000 COND    = 16.0000 O2      = 8.51000 SO4     = 2.33219 PO4     = .117957
NO3     = .033314 NH3     =0.000000 ALK     = .080000 FILT    = 1900.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =
WELCASE =         WELCLAS =PRIVATE  WELPOINT=AFTERSTO WELPIPE =PLASTIC  WELPIPE =       WELTREAT=         WELTREAT=
WELTREAT=         WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =       WELACT  =         WELACT  =
WELACT  =         WELACT  =         WELFREQ =CONSTANT
          ********************************************************************

SITE    =NCGL201  LATITUDE= 36.0487 LONGITUD= 81.7019 SAMPDATE= 9/28/75 SAMPTIME=1345     TEAMS   =803      DUMMY   =0
PH      = 7.71000 EH      = 204.000 TEMP    = 16.0400 COND    = 31.0000 O2      = 5.04000 SO4     = 13.8932 PO4     = .105076
NO3     = .040680 NH3     = .019653 ALK     = .200000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=165      WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =DRILLED
WELCASE =YES      WELCLAS =COMMERCL WELPOINT=OTHER    WELPIPE =GALV     WELPIPE =       WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=         WELDOOR =         WELACT  =       WELACT  =         WELACT  =
WELACT  =         WELACT  =RESID    WELFREQ =CONSTANT
          ********************************************************************

SITE    =NCGP001  LATITUDE= 36.0722 LONGITUD= 81.7525 SAMPDATE= 9/30/75 SAMPTIME=1345     TEAMS   =801      DUMMY   =0
PH      = 7.03000 EH      = 232.000 TEMP    = 15.2800 COND    = 22.0000 O2      = 8.04000 SO4     =0.000000 PO4     =-.014928
NO3     = .168290 NH3     =0.000000 ALK     = .120000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0         STRWIDTH= 20.0000 STRDEPTH= 1.50000 VELOCITY= 2.00000 STRSHAPE=RECT     STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRRED  =ERODED   STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =RESID    STRSAMPW=RIGHT    STRSAMPS=RIGHT    STRCOLOR=
STRWEATH=         STRRAIN =NO
          ********************************************************************
```

NURE MASTER FILE EDIT

```
SITE     =NCGR002  LATITUDE= 36.0546 LONGITUD= 81.7710 SAMPDATE=10/03/75 SAMPTIME=1700     TEAMS    =802      DUMMY    =0
PH       = 7.11000 EH       = 276.000 TEMP     = 10.9000 COND     = 15.0000 O2       = 4.96000 SO4      = 5.26868 PO4      = .787261
NO3      = .040680 NH3      = .102498 ALK      = .120000 FILT     = 2000.00 RESIN    = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 13.0000 STRDEPTH= 1.00000 VELOCITY= .700000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET    STRBED   =DEPOSIT  STRLEVEL=NORMAL   STRVEG   =FOREST   STRRELIF=MODERATE STRPREC =NONE     STRACT   =
STRACT   =         STRACT   =         STRACT   =        STRACT   =         STRSAMPW=LEFT      STRSAMPS=LEFT     STRCOLOR=
STRWEATH=          STRRAIN  =NO
          ********************************************************************************

SITE     =NCGR003  LATITUDE= 36.0688 LONGITUD= 81.7898 SAMPDATE= 9/30/75 SAMPTIME=0        TEAMS    =801      DUMMY    =0
PH       = 6.57000 EH       = 466.000 TEMP     = 13.3100 COND     = 11.0000 O2       = 7.92000 SO4      = 7.55108 PO4      =-.080247
NO3      = .104713 NH3      = .039712 ALK      = .060000 FILT     = 2100.00 RESIN    = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 15.0000 STRDEPTH= 2.50000 VELOCITY= 2.00000 STRSHAPE=RECT     STRBOTOM=ROCK
STRBOTOM=SANDGRAV  STRBED   =ERODED    STRLEVEL=NORMAL   STRVEG   =FOREST   STRRELIF=HIGH     STRPREC =RED      STRACT   =
STRACT   =         STRACT   =         STRACT   =        STRACT   =         STRSAMPW=LEFT      STRSAMPS=LEFT     STRCOLOR=
STRWEATH=          STRRAIN  =NO
          ********************************************************************************

SITE     =NCGR004  LATITUDE= 36.0656 LONGITUD= 81.7974 SAMPDATE= 9/30/75 SAMPTIME=1530     TEAMS    =801      DUMMY    =0
PH       = 6.75000 EH       = 220.000 TEMP     = 13.4900 COND     = 12.0000 O2       = 6.90000 SO4      =0.000000 PO4      =-.058972
NO3      = .033314 NH3      =0.000000 ALK      = .080000 FILT     = 2100.00 RESIN    = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 15.0000 STRDEPTH= 2.00000 VELOCITY= 1.00000 STRSHAPE=TRAP     STRBOTOM=NOTDET
STRBOTOM=ROCK      STRBED   =ERODED    STRLEVEL=NORMAL   STRVEG   =FOREST   STRRELIF=HIGH     STRPREC =NONE     STRACT   =
STRACT   =         STRACT   =         STRACT   =        STRACT   =         STRSAMPW=LEFT      STRSAMPS=LEFT     STRCOLOR=
STRWEATH=          STRRAIN  =NO
          ********************************************************************************

SITE     =NCGR005  LATITUDE= 36.0359 LONGITUD= 81.8086 SAMPDATE= 9/28/75 SAMPTIME=1400     TEAMS    =801      DUMMY    =0
PH       = 6.70000 EH       = 177.000 TEMP     = 14.4400 COND     = 15.0000 O2       = 6.78000 SO4      = 3.30650 PO4      = .131016
NO3      = .004141 NH3      = .496943 ALK      = .120000 FILT     = 2000.00 RESIN    = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 15.0000 STRDEPTH= 2.50000 VELOCITY= 2.00000 STRSHAPE=RECT     STRBOTOM=GRAVEL
STRBOTOM=ROCK      STRBED   =ERODED    STRLEVEL=NORMAL   STRVEG   =FOREST   STRRELIF=MODERATE STRPREC =RED      STRACT   =
STRACT   =         STRACT   =         STRACT   =        STRACT   =         STRSAMPW=LEFT      STRSAMPS=LEFT     STRCOLOR=
STRWEATH=          STRRAIN  =NO
          ********************************************************************************

SITE     =NCGR006  LATITUDE= 36.0351 LONGITUD= 81.8093 SAMPDATE= 9/28/75 SAMPTIME=1315     TEAMS    =801      DUMMY    =0
```


NURE MASTER FILE EDIT

```
PH       = 6.46000 EH       = 226.000 TEMP     = 13.1100 COND     = 8.00000 O2       = 7.91000 SO4      = 7.14416 PO4      = .092366
NO3      = .033314 NH3      = .029631 ALK      = .060000 FILT     = 2000.00 RESIN    = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 20.0000 STRDEPTH= 2.00000 VELOCITY= 2.00000 STRSHAPE=RECT     STRBOTOM=ROCK
STRBOTOM=SILT      STRBED   =ERODED    STRLEVEL=NORMAL   STRVEG   =FOREST   STRRELIF=MODERATE STRPREC =RED      STRACT   =
STRACT   =         STRACT   =         STRACT   =        STRACT   =RESID    STRSAMPW=RIGHT     STRSAMPS=RIGHT    STRCOLOR=
STRWEATH=          STRRAIN  =NO
          ********************************************************************************

SITE     =NCGR007  LATITUDE= 36.0296 LONGITUD= 81.7812 SAMPDATE=10/03/75 SAMPTIME=1215     TEAMS    =801      DUMMY    =0
PH       = 6.66000 EH       = 398.000 TEMP     = 9.18300 COND     = 13.0000 O2       = 8.81000 SO4      =0.000000 PO4      =-.058972
NO3      = .073113 NH3      = .009777 ALK      = .100000 FILT     = 2000.00 RESIN    = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 4.00000 STRDEPTH= .800000 VELOCITY= 4.00000 STRSHAPE=RECT     STRBOTOM=NOTDET
STRBOTOM=NOTDET    STRBED   =ERODED    STRLEVEL=NORMAL   STRVEG   =FOREST   STRRELIF=HIGH     STRPREC =NONE     STRACT   =
STRACT   =         STRACT   =         STRACT   =        STRACT   =         STRSAMPW=          STRSAMPS=         STRCOLOR=
STRWEATH=          STRRAIN  =NO
          ********************************************************************************

SITE     =NCGR008  LATITUDE= 36.0151 LONGITUD= 81.7638 SAMPDATE=10/05/75 SAMPTIME=1430     TEAMS    =802      DUMMY    =0
PH       = 6.98000 EH       = 274.000 TEMP     = 11.5800 COND     = 15.0000 O2       = 6.05300 SO4      = 8.31741 PO4      = .619040
NO3      = .038195 NH3      = .041749 ALK      = .120000 FILT     = 2000.00 RESIN    = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 10.0000 STRDEPTH= 1.00000 VELOCITY= 1.00000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET    STRBED   =DEPOSIT  STRLEVEL=NORMAL   STRVEG   =FOREST   STRRELIF=MODERATE STRPREC =NONE     STRACT   =
STRACT   =         STRACT   =         STRACT   =        STRACT   =         STRSAMPW=          STRSAMPS=LEFT     STRCOLOR=
STRWEATH=CLOUDY    STRRAIN  =NO
          ********************************************************************************

SITE     =NCGR009  LATITUDE= 36.0133 LONGITUD= 81.7928 SAMPDATE=10/07/75 SAMPTIME=1415     TEAMS    =802      DUMMY    =0
PH       = 7.17000 EH       = 264.000 TEMP     = 14.6500 COND     = 16.0000 O2       = 5.85000 SO4      = 9.26868 PO4      = 1.21143
NO3      = .058971 NH3      = .063174 ALK      = .140000 FILT     = 2000.00 RESIN    = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 20.0000 STRDEPTH= 2.00000 VELOCITY= 1.50000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET    STRBED   =DEPOSIT  STRLEVEL=NORMAL   STRVEG   =FOREST   STRRELIF=MODERATE STRPREC =NONE     STRACT   =
STRACT   =         STRACT   =         STRACT   =        STRACT   =         STRSAMPW=RIGHT     STRSAMPS=RIGHT    STRCOLOR=
STRWEATH=CLOUDY    STRRAIN  =NO
          ********************************************************************************

SITE     =NCGR010  LATITUDE= 36.0132 LONGITUD= 81.7945 SAMPDATE=10/07/75 SAMPTIME=1515     TEAMS    =802      DUMMY    =0
PH       = 6.95000 EH       = 293.000 TEMP     = 14.4200 COND     = 12.0000 O2       = 6.61000 SO4      = 8.31741 PO4      = 13.2812
```

NURE MASTER FILE EDIT

```
NO3     = .159179 NH3     = .060194 ALK     = .080000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 17.0000 STRDEPTH= 3.00000 VELOCITY= 2.00000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =DEPOSIT STRLEVEL=NORMAL   STRVEG  =FOREST  STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=         STRSAMPS=RIGHT    STRCOLOR=
STRWEATH=CLOUDY   STRRAIN =NO
          **********************************************************************

SITE    =NCGR011  LATITUDE= 36.0010 LONGITUD= 81.8038 SAMPDATE=10/01/75 SAMPTIME=1715     TEAMS   =B01      DUMMY   =0
PH      = 6.42000 EH      = 736.000 TEMP    = 14.5300 COND    = 13.0000 O2      = 7.42000 SO4     =0.000000 PO4     =-.101056
NO3     =0.000000 NH3     =0.000000 ALK     = .060000 FILT    = 2100.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 5.00000 STRDEPTH= 1.00000 VELOCITY= 2.00000 STRSHAPE=CHANN    STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =FOREST  STRRELIF=HIGH     STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=         STRSAMPS=LEFT     STRCOLOR=
STRWEATH=LIGHT    STRRAIN =NO
          **********************************************************************

SITE    =NCGR012  LATITUDE= 36.0003 LONGITUD= 81.8048 SAMPDATE=10/01/75 SAMPTIME=0        TEAMS   =B01      DUMMY   =0
PH      = 6.45000 EH      = 562.000 TEMP    = 14.2000 COND    = 8.00000 O2      = 7.64000 SO4     =0.000000 PO4     =-.180000
NO3     =0.000000 NH3     = .039712 ALK     = .060000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 35.0000 STRDEPTH= 2.00000 VELOCITY= 3.00000 STRSHAPE=RECT     STRBOTOM=SAND
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =FOREST  STRRELIF=HIGH     STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=LEFT     STRSAMPS=LEFT     STRCOLOR=
STRWEATH=LIGHT    STRRAIN =NO
          **********************************************************************

SITE    =NCGR013  LATITUDE= 36.0008 LONGITUD= 81.8091 SAMPDATE=10/01/75 SAMPTIME=1530     TEAMS   =B01      DUMMY   =0
PH      = 6.25000 EH      = 777.000 TEMP    = 14.1300 COND    = 8.00000 O2      = 7.73000 SO4     = 9.03446 PO4     =-.080247
NO3     =0.000000 NH3     =0.000000 ALK     = .060000 FILT    = 1300.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 10.0000 STRDEPTH= 2.50000 VELOCITY= 3.00000 STRSHAPE=CHANN    STRBOTOM=
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =FOREST  STRRELIF=HIGH     STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=RIGHT    STRSAMPS=RIGHT    STRCOLOR=
STRWEATH=LIGHT    STRRAIN =NO
          **********************************************************************

SITE    =NCGR014  LATITUDE= 36.0007 LONGITUD= 81.8145 SAMPDATE=10/01/75 SAMPTIME=1330     TEAMS   =B01      DUMMY   =0
PH      = 6.82000 EH      = 300.000 TEMP    = 14.3900 COND    = 13.0000 O2      = 7.53000 SO4     = 5.78668 PO4     = .031264
NO3     = .050931 NH3     = .029631 ALK     = .100000 FILT    = 2100.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
```


NURE MASTER FILE EDIT

```
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 5.00000 STRDEPTH= .500000 VELOCITY= 2.00000 STRSHAPE=CHANN    STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =FOREST  STRRELIF=HIGH     STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=         STRSAMPS=         STRCOLOR=
STRWEATH=         STRRAIN =NO
          **********************************************************************

SITE    =NCGR015  LATITUDE= 36.0003 LONGITUD= 81.8155 SAMPDATE=10/01/75 SAMPTIME=1420     TEAMS   =B01      DUMMY   =0
PH      =0.000000 EH      =0.000000 TEMP    = 13.9300 COND    = 6.00000 O2      = 7.73000 SO4     = 7.94136 PO4     =-.080247
NO3     = .012533 NH3     =0.000000 ALK     = .060000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 30.0000 STRDEPTH= 1.50000 VELOCITY= 1.50000 STRSHAPE=RECT     STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =FOREST  STRRELIF=HIGH     STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=LEFT     STRSAMPS=LEFT     STRCOLOR=
STRWEATH=CLOUDY   STRRAIN =NO
          **********************************************************************

SITE    =NCGR016  LATITUDE= 36.0001 LONGITUD= 81.8244 SAMPDATE=10/09/75 SAMPTIME=1345     TEAMS   =B02      DUMMY   =0
PH      = 7.22000 EH      = 351.000 TEMP    = 14.6000 COND    = 64.0000 O2      = 7.44000 SO4     = 8.31741 PO4     =-.121418
NO3     = .019332 NH3     = .124358 ALK     = .080000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 4.00000 STRDEPTH= .900000 VELOCITY= 1.00000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =DEPOSIT STRLEVEL=NORMAL   STRVEG  =FOREST  STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=         STRRAIN =YES
          **********************************************************************

SITE    =NCGR017  LATITUDE= 36.0007 LONGITUD= 81.8310 SAMPDATE=10/09/75 SAMPTIME=1100     TEAMS   =B03      DUMMY   =0
PH      = 6.64000 EH      = 345.000 TEMP    = 13.5700 COND    = 23.0000 O2      = 7.08000 SO4     = 9.03446 PO4     =-.080247
NO3     = .010514 NH3     = .124350 ALK     = .060000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 4.00000 STRDEPTH= .600000 VELOCITY= 1.00000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =DEPOSIT STRLEVEL=NORMAL   STRVEG  =FOREST  STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=         STRRAIN =YES
          **********************************************************************

SITE    =NCGR018  LATITUDE= 36.0007 LONGITUD= 81.8322 SAMPDATE=10/09/75 SAMPTIME=1000     TEAMS   =B03      DUMMY   =0
PH      = 6.89000 EH      = 314.000 TEMP    = 12.6200 COND    = 22.0000 O2      = 7.61000 SO4     = 6.71748 PO4     = .007886
NO3     =0.000000 NH3     = .158102 ALK     = .060000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=
```

NURE MASTER FILE EDIT

```
        =STREAM   BASIN   =0         STRWIDTH= 15.0000 STRDEPTH= 2.00000 VELOCITY= 1.50000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =ERODED    STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =          STRACT  =         STRACT  =         STRSAMPW=LEFT     STRSAMPS=LEFT     STRCOLOR=
STRWEATH=         STRRAIN =YES
          **********************************************************************


SITE    =NCGR019  LATITUDE= 36.0021 LONGITUD= 81.4355 SAMPDATE=10/01/75 SAMPTIME=1600     TEAMS   =802      DUMMY   =0
PH      = 6.59000 EH      = 307.000 TEMP    = 13.6800 COND    = 11.0000 O2      = 5.96000 SO4     = 5.78668 PO4     = 1.34375
NO3     = .030917 NH3     = .039712 ALK     = .080000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0         STRWIDTH= 15.0000 STRDEPTH= 2.00000 VELOCITY= 1.50000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =ERODED    STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =          STRACT  =         STRACT  =         STRSAMPW=         STRSAMPS=LEFT     STRCOLOR=
STRWEATH=LIGHT    STRRAIN =YES
          **********************************************************************


SITE    =NCGR020  LATITUDE= 36.0023 LONGITUD= 81.8395 SAMPDATE=10/01/75 SAMPTIME=1300     TEAMS   =802      DUMMY   =0
PH      = 5.87000 EH      = 304.000 TEMP    = 13.3100 COND    = 12.0000 O2      = 4.81000 SO4     =0.000000 PO4     = 1.49762
NO3     = .035740 NH3     = .049900 ALK     = .100000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0         STRWIDTH= 7.00000 STRDEPTH= 1.00000 VELOCITY= 1.50000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =DEPOSIT   STRLEVEL=HIGH     STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =          STRACT  =         STRACT  =         STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=CLOUDY   STRRAIN =NO
          **********************************************************************


SITE    =NCGR021  LATITUDE= 36.0032 LONGITUD= 81.8397 SAMPDATE=10/01/75 SAMPTIME=1400     TEAMS   =802      DUMMY   =0
PH      = 6.69000 EH      = 305.000 TEMP    = 12.6800 COND    = 10.0000 O2      = 6.33000 SO4     = 13.3333 PO4     = 1.34375
NO3     = .040680 NH3     = .113368 ALK     = .060000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0         STRWIDTH= 15.0000 STRDEPTH= 2.50000 VELOCITY= 1.50000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =ERODED    STRLEVEL=HIGH     STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =          STRACT  =         STRACT  =         STRSAMPW=         STRSAMPS=RIGHT    STRCOLOR=
STRWEATH=CLOUDY   STRRAIN =NO
          **********************************************************************


SITE    =NCGR022  LATITUDE= 36.0088 LONGITUD= 81.8535 SAMPDATE= 9/28/75 SAMPTIME=1700     TEAMS   =802      DUMMY   =0
PH      = 6.45000 EH      = 208.000 TEMP    = 11.4100 COND    = 9.00000 O2      = 6.84000 SO4     = 5.78668 PO4     = .687510
NO3     = .035740 NH3     =0.000000 ALK     = .060000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0         STRWIDTH= 12.0000 STRDEPTH= 1.50000 VELOCITY= 1.50000 STRSHAPE=RECT     STRBOTOM=
```


NURE MASTER FILE EDIT

```
STRBOTOM=NOTDET   STRBED  =DEPOSIT   STRLEVEL=HIGH     STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =          STRACT  =         STRACT  =         STRSAMPW=         STRSAMPS=RIGHT    STRCOLOR=
STRWEATH=         STRRAIN =NO
          **********************************************************************


SITE    =NCGR023  LATITUDE= 36.0056 LONGITUD= 81.8809 SAMPDATE= 9/28/75 SAMPTIME=1500     TEAMS   =802      DUMMY   =0
PH      = 6.65000 EH      = 186.000 TEMP    = 11.1300 COND    = 7.00000 O2      = 4.56000 SO4     =0.000000 PO4     = .476246
NO3     = .045741 NH3     =0.000000 ALK     = .040000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0         STRWIDTH= 4.00000 STRDEPTH= .500000 VELOCITY= 1.00000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =DEPOSIT   STRLEVEL=HIGH     STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =          STRACT  =         STRACT  =         STRSAMPW=         STRSAMPS=COMPOSIT STRCOLOR=
STRWEATH=         STRRAIN =NO
          **********************************************************************


SITE    =NCGR024  LATITUDE= 36.0062 LONGITUD= 81.8617 SAMPDATE= 9/28/75 SAMPTIME=1545     TEAMS   =802      DUMMY   =0
PH      = 6.60000 EH      = 189.000 TEMP    = 11.1800 COND    = 9.00000 O2      = 6.09000 SO4     = 7.55108 PO4     = .043173
NO3     =0.000000 NH3     =0.000000 ALK     = .060000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0         STRWIDTH= 12.0000 STRDEPTH= 3.00000 VELOCITY= 1.00000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =DEPOSIT   STRLEVEL=HIGH     STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =          STRACT  =         STRACT  =         STRSAMPW=         STRSAMPS=LEFT     STRCOLOR=
STRWEATH=         STRRAIN =NO
          **********************************************************************


SITE    =NCGR025  LATITUDE= 36.0180 LONGITUD= 81.8174 SAMPDATE=10/04/75 SAMPTIME=1615     TEAMS   =802      DUMMY   =0
PH      = 6.70000 EH      = 292.000 TEMP    = 12.6600 COND    = 11.0000 O2      = 6.71000 SO4     = 9.37821 PO4     = .991972
NO3     = .079056 NH3     = .039712 ALK     = .080000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0         STRWIDTH= 30.0000 STRDEPTH= 2.00000 VELOCITY= 1.00000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =DEPOSIT   STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =          STRACT  =         STRACT  =         STRSAMPW=LEFT     STRSAMPS=LEFT     STRCOLOR=
STRWEATH=CLOUDY   STRRAIN =NO
          **********************************************************************


SITE    =NCGR026  LATITUDE= 36.0301 LONGITUD= 81.8426 SAMPDATE=10/04/75 SAMPTIME=1400     TEAMS   =802      DUMMY   =0
PH      = 6.67000 EH      = 283.000 TEMP    = 10.3800 COND    = 9.00000 O2      = 7.18000 SO4     = 10.9890 PO4     = 1.68144
NO3     = .079056 NH3     = .049900 ALK     = .060000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0         STRWIDTH= 15.0000 STRDEPTH= 1.50000 VELOCITY= 1.50000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET   STRBED  =ERODED    STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =NONE     STRACT  =
```

NURE MASTER FILE EDIT

```
STRACT  =          STRACT  =          STRACT  =          STRACT  =          STRSAMPW=          STRSAMPS=LEFT      STRCOLOR=
STRWEATH=          STRRAIN =NO
          **********************************************************************

SITE    =NCGR027  LATITUDE= 36.0305 LONGITUD= 81.8414 SAMPDATE=10/04/75 SAMPTIME=1315      TEAMS   =802       DUMMY   =0
PH      = 6.46000 EH      = 282.000 TEMP    = 10.9400 COND    = 8.00000 O2      = 7.14000 SO4     = 10.9890 PO4     = 2.00000
NO3     = .088305 NH3     = .039712 ALK     = .060000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 13.0000 STRDEPTH= 2.00000 VELOCITY= 1.50000 STRSHAPE=RECT      STRBOTOM=
STRBOTOM=NOTDET   STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =NONE      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=          STRSAMPS=RIGHT     STRCOLOR=
STRWEATH=         STRRAIN =NO
          **********************************************************************

SITE    =NCGR028  LATITUDE= 36.0624 LONGITUD= 81.8314 SAMPDATE= 9/29/75 SAMPTIME=1800      TEAMS   =801       DUMMY   =0
PH      = 6.42000 EH      = 270.000 TEMP    = 14.3700 COND    = 14.0000 O2      = 7.01000 SO4     =0.000000 PO4     =-.080247
NO3     =0.000000 NH3     = .181266 ALK     = .060000 FILT    = 2100.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 15.0000 STRDEPTH= 1.00000 VELOCITY= 2.00000 STRSHAPE=RECT      STRBOTOM=SAND
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =RED       STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =         STRSAMPW=RIGHT     STRSAMPS=RIGHT     STRCOLOR=BROWNT
STRWEATH=         STRRAIN =NO
          **********************************************************************

SITE    =NCGR029  LATITUDE= 36.0942 LONGITUD= 81.8560 SAMPDATE= 9/28/75 SAMPTIME=0         TEAMS   =801       DUMMY   =0
PH      = 6.58000 EH      = 196.000 TEMP    = 14.5200 COND    = 28.0000 O2      = 6.96000 SO4     = 4.06002 PO4     = .031264
NO3     = .182766 NH3     = .158102 ALK     = .100000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 15.0000 STRDEPTH= 1.50000 VELOCITY= 2.00000 STRSHAPE=RECT      STRBOTOM=
STRBOTOM=GRAVEL   STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=HIGH    STRPREC =RED       STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =OTHER    STRSAMPW=RIGHT     STRSAMPS=RIGHT     STRCOLOR=BROWNC
STRWEATH=         STRRAIN =YES
          **********************************************************************

SITE    =NCGR101  LATITUDE= 36.0765 LONGITUD= 81.7559 SAMPDATE= 9/30/75 SAMPTIME=1410      TEAMS   =801       DUMMY   =0
PH      = 7.13000 EH      = 145.000 TEMP    = 15.3300 COND    = 14.0000 O2      = 8.39000 SO4     = 6.71748 PO4     = .079826
NO3     = .021597 NH3     =0.000000 ALK     = .120000 FILT    = 2200.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =11       WELTYPE =
WELCASE =         WELCLAS =PRIVATE  WELPOINT=OTHER    WELPIPE =PLASTIC  WELPIPE =        WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =        WELACT  =         WELACT  =
```


NURE MASTER FILE EDIT

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WELACT  =          WELACT  =NONE     WELFREQ =CONSTANT
          **********************************************************************

SITE    =NCGR102  LATITUDE= 36.0631 LONGITUD= 81.7562 SAMPDATE=10/03/75 SAMPTIME=1530      TEAMS   =802       DUMMY   =0
PH      = 6.44000 EH      = 299.000 TEMP    = 16.8800 COND    = 17.0000 O2      = 2.54000 SO4     =0.000000 PO4     = 1.44351
NO3     = .040580 NH3     =0.000000 ALK     = .140000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =10       WELTYPE =
WELCASE =         WELCLAS =PRIVATE  WELPOINT=OTHER    WELPIPE =PLASTIC  WELPIPE =        WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =        WELACT  =         WELACT  =
WELACT  =FARM     WELACT  =RESID    WELFREQ =CONSTANT
          **********************************************************************

SITE    =NCGR103  LATITUDE= 36.0725 LONGITUD= 81.7764 SAMPDATE=10/03/75 SAMPTIME=1145      TEAMS   =802       DUMMY   =0
PH      = 5.78000 EH      = 252.000 TEMP    = 13.7700 COND    = 47.0000 O2      = 6.50000 SO4     =0.000000 PO4     = .335727
NO3     = .082092 NH3     =0.000000 ALK     = .440000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=45       WELSCREN=0        WELAGE  =10       WELAGEP =10       WELTYPE =DRIVEN
WELCASE =YES      WELCLAS =PUBLIC   WELPOINT=AFTERSTO WELPIPE =PLASTIC  WELPIPE =        WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =        WELACT  =         WELACT  =
WELACT  =         WELACT  =RESID    WELFREQ =CONSTANT
          **********************************************************************

SITE    =NCGR106  LATITUDE= 36.0034 LONGITUD= 81.8090 SAMPDATE= 9/28/75 SAMPTIME=1315      TEAMS   =801       DUMMY   =0
PH      = 6.29000 EH      = 230.000 TEMP    = 15.2400 COND    = 14.0000 O2      = 4.28000 SO4     = 7.55108 PO4     = .007886
NO3     = .026204 NH3     = .009777 ALK     = .140000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =25       WELTYPE =
WELCASE =         WELCLAS =PRIVATE  WELPOINT=OTHER    WELPIPE =PLASTIC  WELPIPE =        WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =        WELACT  =         WELACT  =
WELACT  =         WELACT  =RESID    WELFREQ =CONSTANT
          **********************************************************************

SITE    =NCGR108  LATITUDE= 36.0688 LONGITUD= 81.7668 SAMPDATE=10/03/75 SAMPTIME=1300      TEAMS   =801       DUMMY   =0
PH      = 7.24000 EH      = 348.000 TEMP    = 13.1800 COND    = 15.0000 O2      = 7.83000 SO4     = 4.70018 PO4     = .092366
NO3     = .045741 NH3     =0.000000 ALK     = .120000 FILT    = 1600.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =
WELCASE =         WELCLAS =SEMIPRIV WELPOINT=AFTERSTO WELPIPE =GALV     WELPIPE =        WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =        WELACT  =         WELACT  =
WELACT  =         WELACT  =NONE     WELFREQ =CONSTANT
```

NURE MASTER FILE EDIT

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**********************************************************************

SITE     =NCGR109  LATITUDE= 36.0041 LONGITUD= 81.7742 SAMPDATE=10/03/75 SAMPTIME=1900     TEAMS    =802      DUMMY    =0
PH       = 5.50000 EH       = 308.000 TEMP     = 13.2100 COND     = 28.0000 O2       = 4.18000 SO4      = 7.55108 PO4      = .841376
NO3      = .040680 NH3      = .009777 ALK      = .240000 FILT     = 2000.00 RESIN    = 500.000 FORMNAME=          FORMAGE  =
ROCKTYPE=

         =GROUND   WELOR    =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE   =0        WELAGEP  =25       WELTYPE  =
WELCASE  =         WELCLAS  =PRIVATE  WELPOINT=OTHER    WELPIPE  =GALV     WELPIPE  =         WELTREAT=          WELTREAT=
WELTREAT=NONE      WELUSE   =HUMAAN   WELAPPER=CLEAR    WELDOOR  =NONE     WELACT   =         WELACT   =         WELACT   =
WELACT   =         WELACT   =RESID    WELFREQ =CONSTANT
**********************************************************************

SITE     =NCGR129  LATITUDE= 36.0950 LONGITUD= 81.8362 SAMPDATE= 9/28/75 SAMPTIME=1645     TEAMS    =801      DUMMY    =0
PH       = 6.17000 EH       = 236.000 TEMP     = 13.0400 COND     = 94.0000 O2       = 3.64000 SO4      = 6.71748 PO4      = .079826
NO3      = .061722 NH3      =0.000000 ALK      = .520000 FILT     =0.000000 RESIN    = 500.000 FORMNAME=          FORMAGE  =
ROCKTYPE=

         =GROUND   WELOR    =WELL     WELDEPTH=100      WELSCREN=0        WELAGE   =9        WELAGEP  =9        WELTYPE  =
WELCASE  =YES      WELCLAS  =INDUSTRL WELPOINT=AFTERSTO WELPIPE  =GALV     WELPIPE  =         WELTREAT=          WELTREAT=
WELTREAT=NONE      WELUSE   =OTHER    WELAPPER=CLEAR    WELDOOR  =NONE     WELACT   =         WELACT   =         WELACT   =
WELACT   =         WELACT   =OTHER    WELFREQ =CONSTANT
**********************************************************************

SITE     =NCGR228  LATITUDE= 36.0870 LONGITUD= 81.8280 SAMPDATE=10/05/75 SAMPTIME=1500     TEAMS    =802      DUMMY    =0
PH       = 7.00000 EH       = 290.000 TEMP     = 14.3200 COND     = 29.0000 O2       = 2.61000 SO4      = 6.26682 PO4      = .813933
NO3      = .079056 NH3      =0.000000 ALK      = .060000 FILT     = 2000.00 RESIN    = 500.000 FORMNAME=          FORMAGE  =
ROCKTYPE=

         =GROUND   WELOR    =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE   =0        WELAGEP  =0        WELTYPE  =
WELCASE  =         WELCLAS  =OTHER    WELPOINT=WELL     WELPIPE  =         WELPIPE  =         WELTREAT=          WELTREAT=
WELTREAT=NONE      WELUSE   =OTHER    WELAPPER=CLEAR    WELDOOR  =NONE     WELACT   =         WELACT   =         WELACT   =
WELACT   =         WELACT   =NONE     WELFREQ =
**********************************************************************

SITE     =NCLI001  LATITUDE= 35.9787 LONGITUD= 81.9195 SAMPDATE= 9/14/75 SAMPTIME=1500     TEAMS    =803      DUMMY    =0
PH       = 7.17000 EH       = 281.000 TEMP     = 12.6000 COND     = 26.0000 O2       = 9.63000 SO4      = 13.3333 PO4      = .403383
NO3      = .091483 NH3      = .070598 ALK      = .120000 FILT     = 1500.00 RESIN    = 500.000 FORMNAME=          FORMAGE  =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 10.0000 STRDEPTH= 1.00000 VELOCITY= 1.40000 STRSHAPE=RECT     STRBOTOM=NOTDET
STRBOTOM=NOTDET    STRBED   =DEPOSIT  STRLEVEL=NORMAL   STRVEG   =FOREST   STRRELIF=MODERATE STRPREC =RED      STRACT   =
STRACT   =         STRACT   =         STRACT   =        STRACT   =        STRSAMPW=          STRSAMPS=RIGHT    STRCOLOR=
STRWEATH=          STRRAIN =NO
**********************************************************************
```


NURE MASTER FILE EDIT

```
SITE     =NCLI101  LATITUDE= 35.9825 LONGITUD= 81.9099 SAMPDATE=10/02/75 SAMPTIME=1600     TEAMS    =801      DUMMY    =0
PH       = 5.92000 EH       = 460.000 TEMP     = 10.3100 COND     = 9.00000 O2       = 7.60000 SO4      = 3.30650 PO4      = .242527
NO3      = .073113 NH3      = .029631 ALK      = .060000 FILT     = 2000.00 RESIN    = 500.000 FORMNAME=          FORMAGE  =
ROCKTYPE=

         =GROUND   WELOR    =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE   =0        WELAGEP  =9        WELTYPE  =
WELCASE  =         WELCLAS  =PRIVATE  WELPOINT=AFTERSTO WELPIPE  =GALV     WELPIPE  =         WELTREAT=          WELTREAT=
WELTREAT=NONE      WELUSE   =HUMAAN   WELAPPER=CLEAR    WELDOOR  =NONE     WELACT   =         WELACT   =         WELACT   =
WELACT   =         WELACT   =NONE     WELFREQ =CONSTANT
**********************************************************************

SITE     =NCLI102  LATITUDE= 35.9829 LONGITUD= 81.9834 SAMPDATE=10/02/75 SAMPTIME=1515     TEAMS    =801      DUMMY    =0
PH       = 6.55000 EH       = 350.000 TEMP     = 13.6600 COND     = 42.0000 O2       = 6.90000 SO4      = 4.70018 PO4      = .687510
NO3      = .082092 NH3      =0.000000 ALK      = .300000 FILT     = 2000.00 RESIN    = 500.000 FORMNAME=          FORMAGE  =
ROCKTYPE=

         =GROUND   WELOR    =WELL     WELDEPTH=180      WELSCREN=0        WELAGE   =15       WELAGEP  =15       WELTYPE  =DRILLED
WELCASE  =YES      WELCLAS  =PRIVATE  WELPOINT=AFTERSTO WELPIPE  =PLASTIC  WELPIPE  =         WELTREAT=          WELTREAT=
WELTREAT=          WELUSE   =HUMAAN   WELAPPER=CLEAR    WELDOOR  =NONE     WELACT   =         WELACT   =         WELACT   =
WELACT   =FARM     WELACT   =RESID    WELFREQ =CONSTANT
**********************************************************************

SITE     =NCNE001  LATITUDE= 36.0965 LONGITUD= 81.9125 SAMPDATE= 9/27/75 SAMPTIME=1515     TEAMS    =802      DUMMY    =0
PH       = 7.10300 EH       = 241.000 TEMP     = 12.5800 COND     = 18.0000 O2       = 6.74000 SO4      =0.000000 PO4      = .368950
NO3      = .108158 NH3      = .091749 ALK      = .080000 FILT     = 2000.00 RESIN    = 500.000 FORMNAME=          FORMAGE  =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 14.0000 STRDEPTH= 2.00000 VELOCITY= 2.50000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET    STRBED   =DEPOSIT  STRLEVEL=NORMAL   STRVEG   =MODERATE STRRELIF=MODERATE STRPREC =NONE     STRACT   =
STRACT   =         STRACT   =         STRACT   =        STRACT   =FARM     STRSAMPW=LEFT      STRSAMPS=LEFT     STRCOLOR=
STRWEATH=          STRRAIN =NO
**********************************************************************

SITE     =NCNE002  LATITUDE= 36.0777 LONGITUD= 81.9200 SAMPDATE= 9/27/75 SAMPTIME=1715     TEAMS    =802      DUMMY    =0
PH       = 6.91000 EH       = 115.000 TEMP     = 14.5000 COND     = 44.0000 O2       = 5.82000 SO4      = 6.26682 PO4      = .959875
NO3      = .146227 NH3      = .102498 ALK      = .200000 FILT     = 2000.00 RESIN    = 500.000 FORMNAME=          FORMAGE  =
ROCKTYPE=

         =STREAM   BASIN    =0        STRWIDTH= 15.0000 STRDEPTH= 2.00000 VELOCITY= 1.50000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=NOTDET    STRBED   =ERODED   STRLEVEL=NORMAL   STRVEG   =MODERATE STRRELIF=MODERATE STRPREC =NONE     STRACT   =
STRACT   =         STRACT   =         STRACT   =        STRACT   =RESID    STRSAMPW=          STRSAMPS=RIGHT    STRCOLOR=
STRWEATH=          STRRAIN =NO
**********************************************************************

SITE     =NCNE003  LATITUDE= 36.0880 LONGITUD= 81.8784 SAMPDATE= 9/29/75 SAMPTIME=1550     TEAMS    =801      DUMMY    =0
```

NURE MASTER FILE EDIT

```
PH      = 6.86000 EH      = 290.000 TEMP    = 11.9900 COND    = 14.0000 O2      = 7.62000 SO4     = 3.30650 PO4     =-.048151
NO3     = .045741 NH3     =0.000000 ALK     = .120000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 17.0000 STRDEPTH= 1.50000 VELOCITY= 2.00000 STRSHAPE=RECT     STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =FARM     STRSAMPW=LEFT     STRSAMPS=LEFT     STRCOLOR=
STRWEATH=         STRRAIN =NO
          ********************************************************************

SITE    =NCNE004  LATITUDE= 36.0694 LONGITUD= 81.8792 SAMPDATE= 9/29/75 SAMPTIME=1500     TEAMS   =801      DUMMY   =0
PH      = 5.77000 EH      = 306.000 TEMP    = 13.9700 COND    = 28.0000 O2      = 7.33000 SO4     = 3.30650 PO4     =-.058972
NO3     = .104713 NH3     =0.000000 ALK     = .120000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 30.0000 STRDEPTH= 3.00000 VELOCITY= 2.00000 STRSHAPE=RECT     STRBOTOM=SANDGRAV
STRBOTOM=ROCK     STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =         STRACT  =         STRACT  =RESID    STRSAMPW=LEFT     STRSAMPS=LEFT     STRCOLOR=
STRWEATH=         STRRAIN =NO
          ********************************************************************

SITE    =NCNE005  LATITUDE= 36.0469 LONGITUD= 81.9146 SAMPDATE= 9/27/75 SAMPTIME=1300     TEAMS   =802      DUMMY   =0
PH      = 6.94000 EH      = 290.000 TEMP    = 11.9200 COND    = 33.0000 O2      = 5.53000 SO4     = 4.70018 PO4     = .959875
NO3     = .118855 NH3     = .169614 ALK     = .180000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 8.00000 STRDEPTH= 1.00000 VELOCITY= 1.00000 STRSHAPE=RECT     STRBOTOM=GRAVEL
STRBOTOM=SAND     STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =FARM     STRACT  =RESID    STRSAMPW=         STRSAMPS=         STRCOLOR=BROWNT
STRWEATH=         STRRAIN =YES
          ********************************************************************

SITE    =NCNE006  LATITUDE= 36.0147 LONGITUD= 81.9241 SAMPDATE= 9/27/75 SAMPTIME=1030     TEAMS   =802      DUMMY   =0
PH      = 7.26000 EH      = 244.000 TEMP    = 10.7400 COND    = 39.0000 O2      = 6.84000 SO4     =0.000000 PO4     = .6d7510
NO3     = .126310 NH3     = .081116 ALK     = .180000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 20.0000 STRDEPTH= 2.00000 VELOCITY= 1.50000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=MUDDY    STRBED  =DEPOSIT  STRLEVEL=NORMAL   STRVEG  =FOREST   STRRELIF=MODERATE STRPREC =NONE     STRACT  =
STRACT  =         STRACT  =         STRACT  =SEWAGE   STRACT  =FARM     STRSAMPW=RIGHT    STRSAMPS=RIGHT    STRCOLOR=
STRWEATH=         STRRAIN =NO
          ********************************************************************

SITE    =NCNE007  LATITUDE= 36.0092 LONGITUD= 81.8953 SAMPDATE= 9/28/75 SAMPTIME=1100     TEAMS   =801      DUMMY   =0
PH      = 6.28000 EH      = 172.000 TEMP    = 11.3500 COND    = 18.0000 O2      = 7.46000 SO4     = 3.30650 PO4     =-.014928
```


NURE MASTER FILE EDIT

```
NO3     = .073113 NH3     =0.000000 ALK     = .120000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =STREAM   BASIN   =0        STRWIDTH= 5.00000 STRDEPTH= .500000 VELOCITY= 3.00000 STRSHAPE=RECT     STRBOTOM=
STRBOTOM=GRAVEL   STRBED  =ERODED   STRLEVEL=NORMAL   STRVEG  =MODERATE STRRELIF=MODERATE STRPREC =RED      STRACT  =
STRACT  =         STRACT  =OTHER    STRACT  =RESID    STRACT  =FARM     STRSAMPW=LEFT     STRSAMPS=LEFT     STRCOLOR=
STRWEATH=         STRRAIN =NO
          ********************************************************************

SITE    =NCNE101  LATITUDE= 36.0865 LONGITUD= 81.9148 SAMPDATE= 9/27/75 SAMPTIME=1600     TEAMS   =802      DUMMY   =0
PH      = 6.31000 EH      = 224.000 TEMP    = 13.5300 COND    = 30.0000 O2      = 2.19000 SO4     = 10.0417 PO4     = .687510
NO3     = .067339 NH3     = .049900 ALK     = .260000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=85       WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =DRILLED
WELCASE =YES      WELCLAS =PRIVATE  WELPOINT=PUMP     WELPIPE =PLASTIC  WELPIPE =       WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN   WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =       WELACT  =         WELACT  =
WELACT  =RESID    WELACT  =FARM     WELFREQ =CONSTANT
          ********************************************************************

SITE    =NCNE102  LATITUDE= 36.0765 LONGITUD= 81.9247 SAMPDATE=10/02/75 SAMPTIME=1700     TEAMS   =801      DUMMY   =0
PH      = 6.67000 EH      = 381.000 TEMP    = 16.0100 COND    = 141.000 O2      = 3.26000 SO4     = 5.78668 PO4     = .105076
NO3     = .019332 NH3     = .039712 ALK     = .260000 FILT    =0.000000 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL     WELDEPTH=247      WELSCREN=0        WELAGE  =3        WELAGEP =3        WELTYPE =DRILLED
WELCASE =YES      WELCLAS =COMMERCL WELPOINT=OTHER    WELPIPE =         WELPIPE =       WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =OTHER    WELAPPER=CLEAR    WELDOOR =NONE     WELACT  =       WELACT  =         WELACT  =
WELACT  =FARM     WELACT  =RESID    WELFREQ =CONSTANT
          ********************************************************************

SITE    =NCNE103  LATITUDE= 36.0872 LONGITUD= 81.8755 SAMPDATE= 9/29/75 SAMPTIME=1830     TEAMS   =801      DUMMY   =0
PH      = 5.78000 EH      = 210.000 TEMP    = 14.9000 COND    = 73.0000 O2      = 6.68000 SO4     =0.000000 PO4     =-.080247
NO3     = .187828 NH3     =0.000000 ALK     = .120000 FILT    = 2100.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =SPRING   WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =22       WELTYPE =
WELCASE =         WELCLAS =PRIVATE  WELPOINT=WELL     WELPIPE =GALV     WELPIPE =       WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =ANIMAL   WELAPPER=SLIMZY   WELDOOR =WEAK     WELACT  =       WELACT  =         WELACT  =
WELACT  =         WELACT  =FARM     WELFREQ =CONSTANT
          ********************************************************************

SITE    =NCNE104  LATITUDE= 36.0696 LONGITUD= 81.8809 SAMPDATE= 9/29/75 SAMPTIME=1500     TEAMS   =801      DUMMY   =0
PH      = 6.09000 EH      = 337.000 TEMP    = 13.2700 COND    = 47.0000 O2      = 4.80000 SO4     =0.000000 PO4     = .092366
NO3     = .168290 NH3     =0.000000 ALK     = .240000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=          FORMAGE =
```

NURE MASTER FILE EDIT

```
ROCKTYPE=

        =GROUND   WELOR   =WELL      WELDEPTH=90       WELSCREN=0        WELAGE  =15       WELAGEP =15       WELTYPE =DRILLED
WELCASE =YES      WELCLAS =PRIVATE   WELPOINT=OTHER    WELPIPE =GALV     WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN    WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =RESID     WELFREQ =CONSTANT
          **********************************************************************

SITE    =NONE105  LATITUDE= 36.0479 LONGITUD= 81.9157 SAMPDATE= 9/27/75 SAMPTIME=1345     TEAMS   =802      DUMMY   =0
PH      = 6.36000 EH      = 173.000 TEMP    = 12.5600 COND    = 63.0000 O2      = 1.12000 SO4     = 8.68129 PO4     = .898773
NO3     = .085175 NH3     = .091749 ALK     = .520000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=         FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL      WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =0        WELTYPE =
WELCASE =         WELCLAS =PRIVATE   WELPOINT=PUMP     WELPIPE =         WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=         WELUSE  =HUMAAN    WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =FARM     WELACT  =RESID     WELFREQ =CONSTANT
          **********************************************************************

SITE    =NONE106  LATITUDE= 36.0282 LONGITUD= 81.9373 SAMPDATE= 9/27/75 SAMPTIME=1130     TEAMS   =802      DUMMY   =0
PH      = 6.41000 EH      = 256.000 TEMP    = 14.8600 COND    = 43.0000 O2      = 3.19000 SO4     = 9.03446 PO4     = .991972
NO3     = .517741 NH3     = .039712 ALK     = .220000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=         FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =SPRING    WELDEPTH=0        WELSCREN=0        WELAGE  =0        WELAGEP =25       WELTYPE =
WELCASE =         WELCLAS =PRIVATE   WELPOINT=OTHER    WELPIPE =GALV     WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN    WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =         WELACT  =RESID     WELFREQ =CONSTANT
          **********************************************************************

SITE    =NONE107  LATITUDE= 36.0094 LONGITUD= 81.8960 SAMPDATE= 9/28/75 SAMPTIME=1115     TEAMS   =801      DUMMY   =0
PH      = 5.29000 EH      = 255.000 TEMP    = 15.7200 COND    = 34.0000 O2      = 6.87000 SO4     =0.000000 PO4     =-.080247
NO3     = 3.29914 NH3     = .091116 ALK     = .080000 FILT    = 2000.00 RESIN   = 500.000 FORMNAME=         FORMAGE =
ROCKTYPE=

        =GROUND   WELOR   =WELL      WELDEPTH=25       WELSCREN=0        WELAGE  =20       WELAGEP =5        WELTYPE =DRILLED
WELCASE =NO       WELCLAS =PRIVATE   WELPOINT=         WELPIPE =PLASTIC  WELPIPE =         WELTREAT=         WELTREAT=
WELTREAT=NONE     WELUSE  =HUMAAN    WELAPPER=CLEAR    WELODOR =NONE     WELACT  =         WELACT  =         WELACT  =
WELACT  =FARM     WELACT  =RESID     WELFREQ =CONSTANT
          **********************************************************************
```

TABLE 17. Tabulated Field Data from the North Harper Creek, North Carolina Study Area

FIELD MEASUREMENT DATA

SITE CODE	LAT	LONG	ALKA	COND	SO4	NO3	PO4	NH3	PH	EH	O2	FILT	RESIN	TEMP	TEAM
NCCH001	35.9439	81.7576	0.12	19.	4.70	0.06	0.51	0.0	7.22	282.	6.44	2000.	500.	15.28	B02
NCCH002	35.9572	81.7750	0.12	16.	7.55	0.01	1.03	0.0	7.11	314.	6.56	2000.	500.	14.69	B02
NCCH003	35.9705	81.7668	0.08	12.	10.36	0.03	0.96	0.06	6.81	138.	6.72	2000.	500.	13.10	B02
NCCH004	35.9724	81.7663	0.10	13.	9.38	0.02	2.21	0.02	6.91	120.	6.82	2000.	500.	14.29	B02
NCCH005	35.9763	81.7739	0.10	13.	4.06	0.10	0.90	0.0	7.05	323.	5.85	2000.	500.	13.56	B02
NCCH006	35.9894	81.7594	0.16	21.	0.0	0.07	0.42	0.0	6.79	149.	8.05	2000.	500.	13.02	B02
NCCH007	35.9908	81.7616	0.12	16.	5.72	0.07	0.48	0.06	6.80	117.	7.11	2000.	500.	13.33	B02
NCCH008	35.9831	81.7777	0.10	13.	0.0	0.01	1.62	0.0	6.84	346.	6.41	2000.	500.	14.45	B02
NCCH009	35.9784	81.7811	0.08	12.	0.0	0.07	1.83	0.05	7.04	285.	6.14	2000.	500.	14.47	B02
NCCH010	35.9774	81.7812	0.08	14.	4.70	0.02	0.74	0.0	6.85	373.	6.22	2000.	500.	13.77	B02
NCCH011	35.9737	81.7955	0.10	14.	0.0	0.02	0.90	0.04	6.88	360.	6.19	2000.	500.	13.95	B02
NCCH012	35.9864	81.7870	0.08	13.	0.0	0.03	2.21	0.0	6.97	357.	6.48	2000.	500.	14.60	B02
NCCH013	35.9872	81.7947	0.08	8.	4.70	0.02	-0.01	0.04	6.57	272.	7.88	2000.	500.	14.47	B01
NCCH014	35.9861	81.7950	0.06	8.	0.0	0.01	0.03	0.0	6.55	262.	6.59	2000.	500.	14.72	B01
NCCH015	35.9860	81.7994	0.08	10.	0.0	0.05	0.14	0.0	6.65	228.	7.78	2000.	500.	14.57	B01
NCCH016	35.9853	81.8041	0.08	9.	0.0	0.02	0.08	0.04	6.69	217.	7.76	2000.	500.	14.94	B01
NCCH017	35.9851	81.8039	0.0	13.	0.0	0.0	0.0	0.0	6.90	220.	7.93	0.	0.	13.08	B01
NCCH018	35.9905	81.7996	0.08	8.	0.0	0.01	0.07	0.0	6.63	273.	7.83	2150.	500.	14.25	B01
NCCH019	35.9986	81.8036	0.06	9.	0.0	0.01	-0.08	0.09	6.35	606.	7.52	2100.	500.	14.22	B01
NCCH020	35.9807	81.8103	0.06	9.	4.70	0.02	-0.04	0.0	6.60	245.	7.73	750.	350.	14.06	B01
NCCH021	35.9799	81.8155	0.06	6.	0.0	0.06	-0.03	0.02	6.50	230.	6.64	2000.	500.	14.63	B03
NCCH022	35.9794	81.8162	0.08	8.	0.0	0.01	0.03	0.04	5.97	120.	9.40	2000.	500.	15.75	B03
NCCH023	35.9817	81.8222	0.06	0.	3.31	0.03	-0.05	0.05	0.0	0.	0.0	2000.	500.	0.0	B03
NCCH024	35.9823	81.8268	0.06	0.	4.70	0.00	-0.13	0.22	0.0	0.	0.0	1850.	500.	0.0	B03
NCCH025	35.9829	81.8273	0.08	0.	11.60	0.01	-0.18	0.04	0.0	0.	0.0	2000.	500.	0.0	B03
NCCH026	35.9766	81.8382	0.10	124.	7.55	0.32	0.16	0.04	7.86	357.	8.02	1850.	500.	15.34	B03
NCCH027	35.9997	81.8239	0.06	64.	10.36	0.04	-0.08	0.0	7.02	335.	7.69	2000.	500.	14.38	B03
NCCH028	35.9993	81.8313	0.06	30.	5.27	0.01	-0.03	0.08	6.87	354.	7.36	2000.	500.	13.47	B02
NCCH029	35.9938	81.8407	0.04	5.	0.0	0.03	-0.14	0.0	6.38	231.	6.14	2000.	500.	13.54	B03
NCCH030	35.9864	81.8584	0.06	12.	5.27	0.05	0.08	0.0	6.34	281.	7.50	2000.	500.	12.04	B02
NCCH031	35.9598	81.8608	0.08	0.	0.0	0.0	0.0	0.0	0.0	0.	0.0	2000.	500.	0.0	B01
NCCH032	35.9559	81.8743	0.08	0.	0.0	0.0	0.0	0.0	0.0	0.	0.0	1750.	500.	0.0	B01
NCCH033	35.9593	81.8338	0.12	0.	0.0	0.0	0.0	0.0	0.0	0.	0.0	2100.	500.	0.0	B01
NCCH034	35.9380	81.8145	0.12	0.	0.0	0.0	0.0	0.0	0.0	0.	0.0	2050.	500.	0.0	B01
NCCH035	35.9211	81.7920	0.22	30.	7.55	0.04	1.34	0.0	7.75	535.	4.27	2000.	500.	16.08	B02
NCCH036	35.9202	81.7927	0.10	19.	9.71	0.04	0.96	0.11	7.42	534.	5.82	2000.	500.	16.43	B02
NCCH037	35.9015	81.7945	0.10	27.	0.0	0.06	0.23	0.15	6.69	275.	7.79	1800.	500.	14.60	B02
NCCH038	35.8811	81.8019	0.10	14.	0.0	0.06	0.69	0.10	6.89	222.	7.48	2000.	500.	12.26	B02
NCCH039	35.8992	81.8177	0.06	8.	0.0	0.03	-0.13	0.04	6.12	283.	7.75	2000.	500.	14.65	B03
NCCH040	35.9030	81.8172	0.10	13.	4.70	0.04	-0.16	0.06	6.87	267.	6.94	2000.	500.	15.64	B03
NCCH041	35.9133	81.8431	0.04	5.	0.0	0.00	-0.16	0.08	6.37	300.	7.56	2000.	500.	14.71	B03
NCCH042	35.9146	81.8426	0.04	7.	5.79	0.00	-0.10	0.0	6.74	274.	6.68	2000.	500.	15.52	B03
NCCH043	35.9812	81.8185	0.10	12.	0.0	0.03	-0.11	0.0	5.87	190.	9.02	1450.	500.	14.60	B03
NCCH101	35.9509	81.7626	0.28	42.	0.0	0.08	0.48	0.12	5.96	266.	7.48	2000.	500.	15.91	B02
NCCH104	35.9728	81.7660	0.16	21.	4.70	0.05	0.69	0.0	5.90	178.	2.36	2000.	500.	15.86	B02
NCCH106	35.9900	81.7592	0.12	17.	4.70	0.06	0.74	0.06	6.97	102.	2.66	2000.	500.	16.76	B02
NCCH124	35.9828	81.8238	0.08	0.	0.0	0.04	0.03	0.05	0.0	0.	0.0	2000.	500.	0.0	B03
NCCH132	35.9541	81.8703	0.26	23.	2.33	0.02	-0.06	0.04	7.12	-100.	3.60	1900.	500.	14.04	B03
NCCH136	35.9244	81.8154	0.14	0.	8.32	0.09	0.30	0.06	0.0	0.	0.0	1900.	500.	0.0	B03

FIELD MEASUREMENT DATA

SITE CODE	LAT	LONG	ALKA	COND	SO4	NO3	PO4	NH3	PH	EH	O2	FILT	RESIN	TEMP	TEAM
NCCH142	35.9135	81.8407	0.08	14.	0.0	0.00	-0.08	0.02	6.65	201.	0.0	2000.	500.	15.92	B03
NCCL001	35.3351	81.5791	0.14	42.	40.59	0.05	0.37	0.10	7.50	110.	7.41	2000.	1000.	15.69	K01
NCCL002	35.3498	81.5335	0.20	45.	30.85	0.05	0.26	0.11	7.11	189.	7.69	2000.	1000.	14.45	K01
NCCL003	35.3333	81.5214	0.22	53.	37.65	0.02	0.74	0.15	6.90	155.	7.67	2000.	1000.	14.75	K01
NCCL004	35.3392	81.4900	0.24	54.	25.37	0.07	0.40	0.0	6.51	147.	7.49	2000.	1000.	18.10	K01
NCCL005	35.3439	81.4744	0.14	36.	29.62	0.08	0.30	0.0	6.71	190.	7.23	2000.	1000.	14.52	K01
NCCL006	35.3404	81.4283	0.26	66.	38.98	0.03	0.71	0.04	6.56	255.	7.56	2000.	1000.	18.66	K01
NCCL007	35.3380	81.4117	0.22	60.	22.70	0.04	0.93	0.14	6.98	227.	6.57	2000.	1000.	16.06	K01
NCCL008	35.3486	81.3903	0.16	41.	32.17	0.05	1.13	0.12	6.91	226.	7.35	2000.	1000.	16.22	K01
NCCL009	35.3768	81.5734	0.08	31.	32.17	0.08	0.79	0.22	7.10	172.	8.06	2000.	1000.	17.45	K01
NCCL010	35.3697	81.5570	0.12	39.	48.32	0.06	0.74	0.02	6.70	138.	8.54	2000.	1000.	15.81	K01
NCCL011	35.3592	81.5242	0.20	52.	29.04	0.05	0.60	0.12	7.02	285.	7.64	2000.	1000.	16.96	K01
NCCL012	35.3732	81.4815	0.16	42.	29.62	0.04	0.34	0.15	7.18	206.	7.55	2000.	1000.	15.49	K01
NCCL013	35.3633	81.4736	0.10	38.	29.62	0.09	0.44	0.10	7.06	223.	7.38	2000.	1000.	16.78	K01
NCCL014	35.3586	81.4366	0.22	45.	35.11	0.03	1.34	0.0	7.21	176.	7.64	2000.	1000.	17.99	K01
NCCL015	35.3680	81.4145	0.16	42.	33.58	0.02	0.51	0.0	6.75	199.	7.97	2000.	1000.	18.30	K01
NCCL016	35.3825	81.5641	0.14	43.	41.68	0.07	0.37	0.04	6.64	148.	8.43	2000.	1000.	17.53	K01
NCCL017	35.3838	81.5363	0.14	38.	29.04	0.05	0.84	0.09	5.20	57.	8.20	2000.	1000.	14.61	K01
NCCL018	35.3944	81.5207	0.14	44.	11.60	0.03	1.25	0.06	4.45	211.	7.85	2000.	1000.	14.52	K01
NCCL019	35.3944	81.5249	0.14	40.	38.58	0.06	0.96	0.18	5.62	205.	7.50	2000.	1000.	14.71	K01
NCCL020	35.3891	81.4858	0.16	47.	40.59	0.09	0.08	0.0	6.43	251.	7.61	2000.	1000.	17.60	K01
NCCL021	35.3750	81.4623	0.12	32.	26.86	-0.42	1.17	0.03	6.82	220.	6.95	2000.	1000.	16.25	K01
NCCL022	35.3867	81.4309	0.12	38.	37.65	0.09	0.58	1.31	6.48	196.	5.88	2000.	1000.	16.85	K01
NCCL023	35.3715	81.5719	0.10	35.	45.38	0.07	0.60	0.0	5.69	141.	8.08	2000.	1000.	18.15	K01
NCCL024	35.3991	81.5427	0.14	38.	25.37	0.08	0.87	0.24	7.51	129.	8.70	2000.	1000.	11.13	K01
NCCL025	35.4137	81.4993	0.14	46.	45.38	0.18	2.21	0.84	7.15	193.	7.68	2000.	1000.	15.47	K01
NCCL026	35.4026	81.4667	0.16	40.	14.45	0.01	0.27	0.0	6.39	200.	7.53	2000.	1000.	16.62	K01
NCCL027	35.4331	81.5897	0.04	35.	35.11	0.09	0.69	0.22	5.45	278.	8.38	2000.	1000.	14.52	K01
NCCL028	35.4372	81.5449	0.12	42.	26.35	0.0	0.44	0.0	3.55	202.	8.24	2000.	1000.	12.74	K01
NCCL029	35.4378	81.5207	0.14	42.	29.62	0.00	0.46	0.0	4.20	214.	7.38	2000.	1000.	14.47	K01
NCCL030	35.4296	81.4751	0.14	41.	38.58	0.03	0.39	0.0	6.81	199.	7.32	2000.	1000.	16.55	K01
NCCL031	35.4454	81.4608	0.12	42.	23.55	0.18	0.66	0.84	6.53	131.	7.47	2000.	1000.	18.57	K01
NCCL032	35.4460	81.5321	1.44	44.	14.45	0.08	1.25	0.24	3.08	227.	8.05	2000.	1000.	11.95	K01
NCCL033	35.4419	81.4915	0.24	50.	29.04	0.03	0.48	0.08	6.22	254.	7.18	2000.	1000.	17.32	K01
NCCL034	35.4579	81.4929	0.12	41.	26.35	0.05	0.44	0.17	6.83	281.	7.09	2000.	1000.	18.25	K01
NCCL035	35.4736	81.6049	0.10	36.	39.56	0.20	0.35	0.89	6.80	214.	7.65	2000.	1000.	18.37	K01
NCCL036	35.4730	81.5677	0.12	32.	30.85	0.03	0.81	0.43	5.48	170.	7.05	2000.	1000.	17.17	K01
NCCL037	35.4701	81.5613	0.12	32.	28.47	0.04	0.64	0.19	5.77	186.	7.44	2000.	1000.	17.89	K01
NCCL038	35.4655	81.5142	0.14	59.	33.58	0.12	0.74	0.71	6.10	293.	7.54	2000.	1000.	17.34	K01
NCCL039	35.4683	81.4915	0.14	42.	26.35	0.07	2.00	0.28	6.02	261.	7.20	2000.	1000.	18.61	K01
NCCL040	35.4971	81.5833	0.10	29.	35.11	0.02	1.75	0.02	7.01	186.	7.82	2000.	1000.	15.92	K01
NCCL041	35.5018	81.5463	0.08	25.	38.58	0.07	0.79	0.29	6.24	111.	7.30	2000.	1000.	17.41	K01
NCCL042	35.4918	81.5014	0.08	38.	34.33	0.08	0.50	0.0	5.90	139.	7.70	2000.	1000.	16.18	K01
NCCL043	35.5247	81.5862	0.08	27.	24.44	0.04	0.90	0.53	6.88	177.	7.69	2000.	1000.	17.35	K01
NCCL044	35.5129	81.5620	0.04	19.	29.62	0.06	0.84	0.29	6.21	133.	6.64	2000.	1000.	17.21	K01
NCCL045	35.5158	81.5036	0.10	37.	45.38	0.12	0.81	0.0	6.68	85.	7.52	2000.	1000.	18.25	K01
NCCL046	35.5346	81.6403	0.14	37.	27.92	0.0	1.13	0.0	6.99	172.	7.07	2000.	1000.	17.81	K01
NCCL047	35.5323	81.6168	0.10	29.	29.62	0.07	1.10	0.0	7.48	142.	7.78	2000.	1000.	16.95	K01
NCCL048	35.5387	81.5427	0.08	28.	35.92	0.13	0.96	0.76	6.55	192.	7.60	2000.	1000.	18.81	K01

FIELD MEASUREMENT DATA

SITE CODE	LAT	LONG	ALKA	COND	SO4	NO3	PO4	NH3	PH	EH	O2	FILT	RESIN	TEMP	TEAM
NCCL049	35.5370	81.5207	0.10	28.	16.63	0.12	0.74	0.53	6.68	414.	7.62	2000.	1000.	18.05	K01
NCCL050	35.5522	81.5055	0.10	28.	40.59	0.13	0.69	0.66	5.98	296.	7.40	2000.	1000.	17.88	K01
NCCL051	35.4478	81.6432	0.12	31.	28.47	0.05	0.96	0.04	7.25	160.	7.70	2000.	1000.	15.70	K01
NCCL052	35.3753	81.6382	0.08	32.	41.68	0.02	0.69	0.08	7.05	139.	7.71	2000.	1000.	16.27	K01
NCCL053	35.1878	81.5070	0.38	76.	45.38	0.05	0.58	0.0	7.82	118.	7.31	2000.	1000.	16.55	K01
NCCL054	35.2359	81.4751	0.36	79.	26.35	0.03	1.25	0.24	7.35	98.	7.33	2000.	1000.	16.49	K01
NCCL055	35.2670	81.4266	0.34	51.	15.81	0.06	1.17	0.15	8.20	65.	7.60	2000.	1000.	17.73	K01
NCCL056	35.2799	81.4316	0.34	48.	14.72	0.06	2.48	0.0	7.65	82.	8.82	2000.	1000.	16.84	K01
NCCL057	35.2952	81.4295	0.36	54.	9.03	0.03	0.53	0.11	7.92	84.	8.32	2000.	1000.	15.34	K01
NCCL058	35.3081	81.4167	0.38	55.	26.35	0.08	0.48	0.10	8.13	81.	7.49	2000.	1000.	14.31	K01
NCCL059	35.4853	81.4793	0.14	42.	35.11	0.13	1.68	0.40	5.51	107.	6.49	2000.	1000.	18.22	K01
NCCL061	35.4765	81.4615	0.20	32.	32.17	0.03	0.62	0.08	6.15	144.	6.91	2000.	1000.	12.93	K01
NCCL062	35.4448	81.4566	0.18	44.	38.58	0.22	1.34	0.0	6.33	235.	7.70	2000.	1000.	16.23	K01
NCCL064	35.5123	81.4131	0.14	38.	18.95	0.02	0.19	0.38	4.88	140.	5.62	2000.	1000.	18.32	K01
NCCL065	35.5129	81.4081	0.14	39.	16.08	0.11	0.90	0.0	6.97	123.	6.05	2000.	1000.	17.34	K01
NCCL066	35.5141	81.4010	0.12	36.	40.59	0.03	0.79	0.0	7.09	82.	7.55	2000.	1000.	16.21	K01
NCCL067	35.4654	81.3981	0.20	24.	6.27	0.02	1.68	0.02	5.74	125.	8.14	2000.	1000.	11.03	K01
NCCL068	35.4161	81.3704	0.26	82.	15.81	0.49	1.03	1.14	7.21	60.	6.08	2000.	1000.	16.51	K01
NCCL069	35.4366	81.3298	0.26	52.	0.0	0.05	0.42	0.08	6.37	70.	7.48	2000.	1000.	17.18	K01
NCCL070	35.4272	81.3269	0.18	56.	11.60	0.03	1.68	0.16	6.54	67.	5.85	2000.	1000.	18.48	K01
NCCL071	35.3832	81.3269	0.28	80.	4.06	0.04	2.48	0.64	6.99	85.	6.83	2000.	1000.	19.13	K01
NCCL072	35.3903	81.2984	0.28	75.	20.37	0.16	1.10	0.53	6.90	198.	6.57	2000.	1000.	17.79	K01
NCCL073	35.3797	81.2956	0.18	49.	0.0	0.0	1.83	0.38	5.16	90.	7.22	2000.	1000.	18.55	K01
NCCL074	35.3034	81.3120	0.22	57.	29.04	0.0	0.79	0.43	7.27	76.	6.62	2000.	1000.	19.01	K01
NCCL075	35.3181	81.2927	0.22	55.	28.47	0.01	0.13	0.0	7.06	106.	6.68	2000.	1000.	17.41	K01
NCCL076	35.2512	81.2771	0.44	192.	19.65	0.05	4.49	0.15	8.47	61.	7.75	2000.	1000.	18.25	K01
NCCL077	35.2565	81.2699	0.74	699.	325.08	0.06	0.96	1.24	7.20	18.	3.21	2000.	1000.	16.42	K01
NCCL078	35.1960	81.2222	0.72	298.	183.84	0.0	0.30	0.10	7.18	46.	4.70	2000.	1000.	16.37	K01
NCCL079	35.2344	81.2322	0.74	342.	214.20	0.06	0.79	0.24	9.95	38.	3.45	2000.	1000.	15.85	K01
NCCL080	35.3122	81.2322	0.28	71.	29.62	0.0	2.87	0.0	7.82	127.	7.51	2000.	1000.	16.43	K01
NCCL081	35.4255	81.2578	0.18	58.	15.27	0.07	0.90	0.24	7.09	150.	5.28	2000.	1000.	18.19	K01
NCCL082	35.3985	81.2664	0.36	46.	23.55	0.05	0.79	0.0	7.68	126.	0.0	2000.	1000.	8.46	K01
NCCL083	35.4947	81.3048	0.28	35.	21.12	0.03	0.51	0.08	6.82	94.	8.45	2000.	1000.	9.40	K01
NCCL084	35.4847	81.2813	0.24	44.	12.77	0.04	0.84	0.10	6.18	106.	6.30	2000.	1000.	13.53	K01
NCCL085	35.3269	81.1816	0.28	63.	36.77	0.04	1.34	0.0	7.04	94.	6.58	2000.	1000.	16.37	K01
NCCL086	35.4842	81.1724	0.42	49.	24.44	0.03	0.64	0.0	7.22	57.	6.91	2000.	1000.	14.87	K01
NCCL087	35.3393	81.1182	0.58	183.	42.84	0.04	2.34	0.08	3.70	92.	8.13	2000.	1000.	12.30	K01
NCCL088	35.3363	81.1339	0.40	83.	18.95	0.04	1.39	0.53	7.68	126.	7.47	2000.	1000.	14.88	K01
NCCL089	35.3674	81.1318	0.32	39.	15.27	0.01	0.17	0.0	6.64	116.	8.56	2000.	1000.	10.60	K01
NCCL090	35.4736	81.1204	0.40	42.	18.95	0.03	1.56	0.04	7.19	112.	8.28	2000.	1000.	12.24	K01
NCCL091	35.4184	81.0568	0.40	38.	16.90	0.02	0.90	0.02	7.28	61.	9.04	2000.	1000.	12.97	K01
NCCL092	35.3697	81.0748	0.40	46.	28.47	0.03	0.44	0.08	7.78	105.	8.27	2000.	1000.	11.16	K01
NCCL093	35.3216	81.0321	0.74	90.	9.71	0.04	0.34	0.06	7.68	63.	7.94	2000.	1000.	13.66	K01
NCCL094	35.3410	81.0242	0.58	71.	18.62	0.03	0.56	0.02	7.52	75.	7.65	2000.	1000.	12.62	K01
NCCL095	35.3856	81.0349	0.50	62.	10.68	0.05	0.90	0.04	7.46	98.	8.19	2000.	1000.	11.50	K01
NCCL096	35.4184	81.0278	0.54	68.	21.50	0.03	0.56	0.02	7.68	75.	8.07	2000.	1000.	14.35	K01
NCCL097	35.4266	81.3832	0.22	31.	16.68	0.02	2.21	0.05	7.12	128.	2.14	2000.	1000.	9.02	K01
NCCL098	35.5000	81.3397	0.12	39.	15.54	0.06	0.34	0.0	6.24	90.	7.87	2000.	1000.	18.18	K01
NCCL099	35.4795	81.2664	0.72	263.	21.12	0.04	3.94	0.57	6.28	87.	6.47	2000.	1000.	12.11	K01

FIELD MEASUREMENT DATA

SITE CODE	LAT	LONG	ALKA	COND	SO4	NO3	PO4	NH3	PH	EH	O2	FILT	RESIN	TEMP	TEAM
NCCL101	35.3457	81.5876	0.54	123.	15.00	0.52	0.30	0.02	8.39	190.	7.04	2000.	1000.	17.94	K01
NCCL102	35.3504	81.5356	0.22	105.	35.92	0.07	1.06	0.0	6.15	385.	1.75	2000.	1000.	16.71	K01
NCCL103	35.3327	81.5192	0.64	161.	31.90	0.04	0.42	0.0	7.60	164.	4.25	2000.	1000.	19.64	K01
NCCL104	35.3392	81.4900	0.58	129.	38.58	0.04	0.99	0.12	7.45	81.	1.06	2000.	1000.	18.28	K01
NCCL105	35.3421	81.4630	0.0	0.	0.0	0.0	0.0	0.0	0.0	0.	0.0	2000.	1000.	0.0	K01
NCCL106	35.3416	81.4266	0.12	55.	35.11	0.13	0.69	0.09	4.86	305.	5.85	2000.	1000.	17.58	K01
NCCL107	35.3380	81.4117	0.02	101.	79.04	0.02	0.26	0.0	4.64	341.	1.82	2000.	1000.	15.33	K01
NCCL108	35.3458	81.3889	0.82	148.	26.35	0.13	0.96	0.15	6.27	256.	5.02	2000.	1000.	14.18	K01
NCCL109	35.3709	81.5748	0.10	60.	26.35	0.33	0.13	0.12	5.94	179.	7.32	2000.	1000.	15.85	K01
NCCL110	35.3738	81.5548	0.02	62.	35.11	0.13	2.00	0.40	5.92	224.	7.12	2000.	1000.	17.32	K01
NCCL111	35.3633	81.5192	0.34	212.	24.90	0.55	0.42	0.17	5.64	343.	4.06	2000.	1000.	17.58	K01
NCCL112	35.3779	81.4843	0.24	74.	23.12	0.14	0.60	0.24	5.40	260.	7.53	2000.	1000.	15.81	K01
NCCL113	35.3650	81.4722	0.20	52.	29.62	0.13	0.74	0.0	5.80	242.	6.50	2000.	1000.	19.09	K01
NCCL114	35.3644	81.4352	0.28	67.	22.70	0.07	0.30	0.22	5.81	210.	7.05	2000.	1000.	16.57	K01
NCCL115	35.3762	81.4181	0.34	79.	24.44	0.07	0.90	0.0	6.85	217.	7.17	2000.	1000.	17.80	K01
NCCL116	35.3815	81.5643	0.10	75.	36.77	0.14	0.27	0.45	4.95	162.	4.35	2000.	1000.	19.61	K01
NCCL117	35.3856	81.5392	0.20	504.	7.55	2.09	0.69	0.0	4.27	167.	6.78	2000.	1000.	16.64	K01
NCCL118	35.3920	81.5221	0.12	62.	20.37	0.25	0.24	0.02	4.40	231.	5.28	2000.	1000.	16.25	K01
NCCL119	35.3985	81.5285	0.48	186.	46.80	0.21	1.03	0.0	6.80	156.	4.71	2000.	1000.	15.93	K01
NCCL120	35.3879	81.4843	0.0	673.	4.70	8.25	0.42	0.0	4.04	279.	5.30	2000.	1000.	18.26	K01
NCCL121	35.3727	81.4658	0.16	194.	26.06	0.42	1.25	0.0	5.42	217.	6.98	2000.	1000.	16.90	K01
NCCL122	35.3897	81.4516	0.78	117.	33.58	0.09	0.48	0.23	8.35	183.	6.50	2000.	1000.	17.41	K01
NCCL123	35.3721	81.5712	0.94	200.	25.37	0.38	1.34	0.0	5.60	172.	7.03	2000.	1000.	18.38	K01
NCCL124	35.3979	81.5413	0.38	102.	39.56	0.10	0.42	0.33	5.55	192.	6.05	2000.	1000.	16.05	K01
NCCL125	35.4149	81.4979	0.06	141.	33.85	0.23	1.83	0.97	5.50	287.	4.81	2000.	1000.	15.35	K01
NCCL126	35.4020	81.4708	0.04	93.	35.11	0.72	0.60	0.0	5.28	260.	6.92	2000.	1000.	18.46	K01
NCCL127	35.4331	81.5883	0.18	47.	26.35	0.02	0.69	0.0	4.80	290.	3.87	2000.	1000.	16.14	K01
NCCL128	35.4354	81.5356	0.56	126.	48.32	0.40	0.90	0.35	6.02	253.	7.46	2000.	1000.	14.98	K01
NCCL129	35.4360	81.5214	0.02	144.	11.29	0.49	0.21	0.02	4.06	230.	6.35	2000.	1000.	16.87	K01
NCCL130	35.4302	81.4786	0.66	117.	29.62	0.02	0.62	0.02	8.53	244.	2.25	2000.	1000.	15.90	K01
NCCL131	35.4472	81.4523	0.66	129.	45.38	0.21	3.14	1.35	7.75	4.	1.40	2000.	1000.	16.60	K01
NCCL132	35.4456	81.5335	0.06	44.	25.37	0.34	0.90	0.10	4.00	288.	7.14	2000.	1000.	17.33	K01
NCCL133	35.4407	81.4929	0.60	122.	23.99	0.04	1.68	1.31	6.54	159.	2.72	2000.	1000.	15.70	K01
NCCL134	35.4519	81.4943	0.64	254.	15.00	1.65	0.79	0.04	5.37	287.	6.05	2000.	1000.	15.02	K01
NCCL135	35.4748	81.6026	0.62	116.	24.90	0.47	1.44	0.84	6.10	236.	5.90	2000.	1000.	16.95	K01
NCCL136	35.4765	81.5670	0.02	42.	29.04	0.18	0.39	0.0	4.31	312.	7.39	2000.	1000.	15.50	K01
NCCL137	35.4683	81.5577	0.62	125.	28.47	0.05	0.74	0.12	5.69	257.	4.74	2000.	1000.	16.11	K01
NCCL138	35.4666	81.5178	0.30	160.	41.68	0.66	0.35	0.04	6.07	256.	1.45	2000.	1000.	16.52	K01
NCCL139	35.4683	81.4922	0.66	133.	15.27	0.15	0.29	0.0	5.68	283.	5.23	2000.	1000.	15.22	K01
NCCL140	35.4977	81.5812	0.10	36.	15.27	0.09	0.81	0.0	5.41	254.	5.65	2000.	1000.	17.04	K01
NCCL141	35.5059	81.5356	0.52	117.	45.38	0.07	1.03	0.06	5.15	157.	4.49	2000.	1000.	17.11	K01
NCCL142	35.4918	81.5028	0.08	52.	41.68	0.55	1.50	0.0	4.77	214.	4.15	2000.	1000.	16.70	K01
NCCL143	35.5233	81.5876	0.50	104.	30.23	0.29	0.56	0.38	6.40	221.	7.44	2000.	1000.	16.32	K01
NCCL144	35.5188	81.5556	0.04	18.	42.84	0.06	0.93	0.33	4.19	206.	2.15	2000.	1000.	15.92	K01
NCCL145	35.5123	81.5078	0.58	232.	25.86	0.36	1.34	0.50	6.50	152.	5.72	2000.	1000.	16.71	K01
NCCL146	35.5329	81.6403	0.26	54.	34.33	0.14	1.68	0.36	6.33	228.	6.57	2000.	1000.	18.40	K01
NCCL147	35.5352	81.6239	0.16	75.	31.50	0.30	1.17	0.35	5.41	177.	5.95	2000.	1000.	18.90	K01
NCCL148	35.5376	81.5399	0.34	96.	33.58	0.39	0.90	0.78	5.93	247.	5.70	2000.	1000.	17.34	K01
NCCL149	35.5387	81.5207	0.18	67.	20.37	0.33	0.96	0.53	5.08	455.	6.20	2000.	1000.	17.56	K01

FIELD MEASUREMENT DATA

SITE CODE	LAT	LONG	ALKA	COND	SO4	NO3	PO4	NH3	PH	EH	O2	FILT	RESIN	TEMP	TEAM
NCCL150	35.5505	81.5662	0.54	113.	33.58	0.18	2.00	0.0	6.56	226.	1.85	2000.	1000.	19.27	K01
NCCL151	35.4542	81.6396	1.00	199.	26.86	0.06	2.00	0.04	6.45	237.	5.19	2000.	1000.	15.75	K01
NCCL152	35.3797	81.6225	0.16	120.	30.23	0.07	1.91	0.0	6.42	203.	1.25	2000.	1000.	15.89	K01
NCCL153	35.1972	81.5100	1.14	133.	12.48	0.02	2.00	0.0	8.12	76.	2.90	2000.	1000.	17.70	K01
NCCL154	35.2342	81.4765	0.24	58.	14.45	0.33	1.34	0.0	7.30	78.	6.85	2000.	1000.	17.68	K01
NCCL155	35.2653	81.4195	0.62	75.	8.32	0.07	1.56	0.0	7.50	94.	4.81	2000.	1000.	17.94	K01
NCCL156	35.2829	81.4338	0.56	59.	18.62	0.04	0.69	0.02	6.50	108.	7.88	2000.	1000.	16.92	K01
NCCL157	35.2917	81.4231	0.82	111.	15.27	0.16	0.96	0.10	7.08	124.	7.41	2000.	1000.	17.38	K01
NCCL158	35.3058	81.4152	0.28	69.	6.27	0.23	0.64	0.0	7.32	123.	6.99	2000.	1000.	15.72	K01
NCCL159	35.4859	81.5541	0.04	78.	48.32	0.18	1.03	0.0	4.10	199.	4.77	2000.	1000.	16.42	K01
NCCL151	35.4765	81.4594	0.76	105.	9.71	0.03	0.37	0.06	6.90	136.	0.38	2000.	1000.	15.69	K01
NCCL162	35.4437	81.4587	0.38	97.	13.95	0.0	-0.08	0.0	6.39	246.	1.51	2000.	1000.	17.12	K01
NCCL164	35.5088	81.4145	0.12	138.	40.59	0.24	1.44	0.0	4.80	132.	3.31	2000.	100.	15.25	K01
NCCL165	35.5135	81.4095	0.36	149.	23.55	1.51	1.91	0.0	4.65	161.	5.49	2000.	1000.	16.42	K01
NCCL166	35.5141	81.4017	0.14	42.	29.62	0.18	1.13	0.45	5.80	187.	6.48	2000.	1000.	17.17	K01
NCCL167	35.4630	81.4081	0.12	57.	4.70	0.16	0.13	0.04	5.26	171.	5.55	2000.	1000.	16.80	K01
NCCL168	35.4167	81.3718	0.04	32.	5.79	0.15	0.84	0.0	5.45	164.	5.95	2000.	1000.	17.56	K01
NCCL169	35.4360	81.3348	0.24	48.	10.36	0.18	2.21	0.19	5.15	100.	7.33	2000.	1000.	16.05	K01
NCCL170	35.4290	81.3276	0.12	58.	26.35	0.29	1.39	0.0	4.52	127.	5.68	2000.	1000.	18.62	K01
NCCL171	35.3844	81.3283	0.26	47.	0.0	0.20	4.49	0.11	5.29	109.	6.90	2000.	1000.	18.10	K01
NCCL172	35.3862	81.2991	0.20	74.	16.08	0.55	0.81	0.0	4.73	129.	6.95	2000.	1000.	17.60	K01
NCCL173	35.3750	81.2956	0.02	15.	0.0	0.03	0.71	0.0	4.75	152.	6.93	2000.	1000.	15.97	K01
NCCL174	35.3034	81.3120	0.40	189.	32.86	0.00	0.27	0.0	5.90	178.	4.40	2000.	1000.	16.42	K01
NCCL175	35.3193	81.2934	0.18	59.	36.77	0.12	0.90	0.56	6.75	155.	3.92	2000.	1000.	20.26	K01
NCCL176	35.2506	81.2792	0.52	70.	15.54	0.15	1.75	0.08	7.62	103.	7.45	2000.	1000.	19.28	K01
NCCL177	35.2547	81.2714	0.92	106.	6.27	0.01	1.34	0.0	7.15	90.	6.61	2000.	1000.	16.17	K01
NCCL178	35.1937	81.2201	0.38	50.	13.61	0.08	0.69	0.09	6.82	122.	8.12	2000.	1000.	16.23	K01
NCCL179	35.2259	81.2329	0.84	160.	16.08	0.28	0.90	0.11	8.37	179.	6.12	2000.	1000.	16.24	K01
NCCL180	35.3110	81.2343	0.28	257.	16.08	3.30	2.48	0.0	5.80	165.	6.35	2000.	1000.	17.14	K01
NCCL181	35.4278	81.2571	0.32	106.	13.33	0.55	0.96	0.22	5.25	93.	7.05	2000.	1000.	17.40	K01
NCCL182	35.3991	81.2671	0.22	39.	27.38	0.05	1.13	0.06	6.72	129.	5.70	2000.	1000.	15.85	K01
NCCL183	35.4965	81.3070	0.20	41.	23.12	0.06	0.34	0.05	6.25	122.	6.88	2000.	1000.	17.59	K01
NCCL184	35.4947	81.2785	0.34	91.	7.94	0.58	0.44	0.0	6.20	132.	5.90	2000.	1000.	13.85	B01
NCCL185	35.3275	81.1823	0.32	72.	48.32	0.12	2.10	0.47	5.11	119.	4.90	2000.	1000.	17.60	K01
NCCL186	35.4014	81.1695	0.38	49.	5.79	0.0	0.87	0.0	6.30	144.	8.02	2000.	1000.	16.60	K01
NCCL187	35.3016	81.1061	0.32	44.	21.50	0.06	1.34	0.0	6.74	120.	7.07	2000.	1000.	14.48	K01
NCCL188	35.3369	81.1325	0.60	116.	8.32	1.55	2.48	0.10	6.28	168.	4.81	2000.	1000.	15.65	K01
NCCL189	35.3635	81.1339	0.38	60.	28.47	0.05	0.30	0.0	5.95	114.	6.32	2000.	1000.	16.31	K01
NCCL190	35.4736	81.1232	0.52	69.	7.14	0.03	1.10	0.02	6.61	139.	7.55	2000.	1000.	15.15	K01
NCCL191	35.4178	81.0570	0.48	147.	8.32	0.32	1.56	0.04	6.04	98.	6.21	2000.	1000.	16.68	K01
NCCL192	35.3721	81.0770	0.92	80.	26.35	0.03	0.69	0.04	6.55	166.	6.27	2000.	1000.	15.01	K01
NCCL193	35.3269	81.0292	0.72	180.	3.31	1.60	1.75	0.0	6.63	87.	5.40	2000.	1000.	16.42	K01
NCCL194	35.3398	81.0235	1.22	159.	13.89	0.11	1.03	0.02	6.92	102.	6.18	2000.	1000.	16.56	K01
NCCL195	35.3909	81.0406	1.44	227.	27.92	0.09	0.96	0.0	6.32	117.	3.76	2000.	1000.	16.00	K01
NCCL196	35.4220	81.0249	1.06	125.	9.71	0.06	1.68	0.0	6.91	84.	6.28	2000.	1000.	16.30	K01
NCCL197	35.4249	81.3845	0.0	104.	11.29	0.22	0.26	0.07	7.03	152.	4.49	2000.	1000.	15.67	K01
NCCL198	35.5018	81.3405	0.06	80.	38.58	0.58	1.25	0.0	4.05	174.	6.00	2000.	1000.	16.90	K01
NCCL199	35.4818	81.2692	0.20	29.	15.27	0.04	0.95	0.06	6.43	111.	6.93	2000.	1000.	13.81	K01
NCCL200	35.1667	81.3803	0.12	181.	3.31	1.82	0.74	0.0	7.90	115.	6.12	2000.	1000.	16.95	K01

RUN TIME 03/18/76 12:27
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FIELD MEASUREMENT DATA

SITE CODE	LAT	LONG	ALKA	COND	SO4	NO3	PO4	NH3	PH	EH	O2	FILT	RESIN	TEMP	TEAM
NCCL201	0.0	0.0	0.34	89.	35.92	0.07	0.21	0.25	5.25	184.	3.70	2000.	1000.	16.19	K01
NCCL202	0.0	0.0	0.14	62.	30.85	0.06	0.48	0.0	4.65	165.	3.90	2000.	1000.	17.85	K01
NCCD001	35.9722	81.6336	0.16	26.	10.36	0.12	0.19	0.04	6.73	160.	8.41	2000.	500.	17.80	B03
NCCD002	35.9795	81.5838	0.10	23.	13.99	0.05	0.44	0.02	6.83	213.	9.30	2000.	500.	15.50	B03
NCCD003	35.9693	81.5969	0.08	19.	0.0	0.02	0.17	0.04	6.65	100.	9.20	2000.	500.	15.02	B03
NCCD004	35.9627	81.7082	0.10	18.	0.0	0.02	0.01	0.03	6.79	169.	9.19	2000.	500.	15.00	B03
NCCD005	35.9532	81.7137	0.12	19.	11.88	0.05	0.11	0.03	6.70	162.	9.15	1900.	500.	15.25	B03
NCCD006	35.9428	81.7033	0.10	19.	3.32	0.03	0.01	0.03	6.55	120.	9.38	2000.	500.	13.75	B03
NCCD007	35.9355	81.6920	0.06	15.	6.72	0.05	0.01	0.0	5.77	254.	6.85	2000.	500.	16.95	B01
NCCD008	35.9307	81.6838	0.12	47.	0.0	0.11	0.16	0.0	7.11	212.	6.99	2000.	500.	18.62	B01
NCCD009	35.9416	81.7481	0.06	7.	0.0	0.08	-0.03	0.0	6.71	360.	8.40	2000.	500.	11.25	B01
NCCD010	35.8992	81.7466	0.04	12.	5.27	0.00	0.06	0.06	6.17	274.	7.19	2000.	500.	17.08	B02
NCCD011	35.8795	81.7419	0.08	21.	6.27	0.0	0.09	0.10	6.51	231.	6.38	2150.	500.	17.72	B02
NCCD012	35.8797	81.7455	0.08	21.	4.70	0.0	0.07	0.08	6.41	102.	6.83	2000.	500.	17.64	B01
NCCD101	35.9685	81.6321	0.26	28.	7.55	0.01	0.16	0.04	6.03	242.	7.70	0.	500.	18.25	B03
NCCD102	35.9801	81.6841	0.18	33.	9.38	0.04	0.48	0.0	6.53	185.	8.70	2000.	500.	19.50	B03
NCCD103	35.9693	81.6962	0.10	17.	0.0	0.02	0.07	0.05	6.58	100.	8.44	2000.	500.	16.70	B03
NCCD104	35.9630	81.7080	0.26	61.	13.04	0.08	0.14	0.02	6.46	148.	6.97	2000.	500.	19.80	B03
NCCD106	35.9444	81.7006	0.08	13.	13.89	0.04	0.16	0.0	6.44	214.	8.80	2000.	500.	19.50	B03
NCCD107	35.9405	81.6971	0.12	14.	3.31	0.05	0.16	0.0	5.76	264.	7.06	2150.	500.	14.33	B02
NCCD108	35.9306	81.6831	0.28	33.	0.0	0.01	0.90	0.0	6.00	282.	6.63	2000.	500.	14.21	B02
NCCD111	35.8791	81.7406	0.14	36.	0.0	0.15	0.01	0.06	5.51	285.	5.79	2150.	500.	16.15	B01
NCCD115	35.9982	81.6843	0.12	4.	5.79	0.03	-0.38	0.04	5.95	175.	9.08	2000.	500.	17.00	B03
NCGL001	36.0928	81.6860	0.10	31.	15.00	0.14	-0.04	0.0	6.58	270.	9.57	2000.	500.	13.00	B03
NCGL002	36.0853	81.7038	0.14	32.	3.31	0.09	0.58	0.0	7.06	219.	6.92	1900.	500.	14.92	B02
NCGL003	36.0868	81.7073	0.22	33.	0.0	0.05	0.40	0.0	7.49	214.	6.21	2000.	500.	15.24	B02
NCGL004	36.0825	81.7100	0.14	30.	6.72	0.12	0.74	0.0	7.40	298.	6.10	2000.	500.	14.88	B02
NCGL005	36.0811	81.7372	0.10	17.	7.55	0.05	0.11	0.06	6.87	433.	7.33	2000.	500.	14.96	B01
NCGL006	36.0820	81.7352	0.08	14.	0.0	0.06	-0.04	0.0	6.85	267.	7.51	2000.	500.	14.43	B01
NCGL007	36.0689	81.6935	0.18	31.	9.03	0.10	0.25	0.0	7.02	185.	5.83	2000.	500.	14.26	B02
NCGL008	36.0611	81.6927	0.24	32.	7.55	0.08	0.69	0.0	7.14	230.	5.86	2000.	500.	16.35	B02
NCGL009	36.0591	81.6961	0.18	22.	4.06	0.06	1.17	0.02	6.98	195.	6.87	2000.	500.	14.73	B02
NCGL010	36.0534	81.6907	0.14	21.	9.71	0.03	0.23	0.0	6.70	313.	7.02	2100.	500.	15.39	B01
NCGL011	36.0583	81.7273	0.10	18.	12.77	0.06	-0.04	0.0	6.98	298.	5.70	2000.	500.	14.20	B01
NCGL012	36.0352	81.7105	0.08	15.	4.06	0.12	0.08	0.05	6.27	356.	7.04	2100.	500.	16.12	B01
NCGL013	36.0309	81.7065	0.16	22.	5.27	0.05	-0.01	0.12	6.58	355.	7.09	2000.	500.	14.78	B01
NCGL014	36.0300	81.6938	0.16	25.	5.27	0.04	0.12	0.0	6.77	286.	7.28	2000.	500.	14.90	B01
NCGL015	36.0084	81.6937	0.10	16.	16.36	0.12	0.06	0.0	6.88	190.	9.19	1900.	500.	15.40	B03
NCGL016	35.9915	81.6841	0.12	18.	10.36	0.04	0.13	0.0	6.89	178.	9.03	2000.	500.	15.90	B03
NCGL101	36.0907	81.6877	0.12	21.	0.0	0.02	0.03	0.06	6.30	168.	9.00	2000.	500.	14.25	B03
NCGL102	36.0770	81.7023	0.20	33.	7.14	0.10	0.42	0.29	6.66	255.	2.06	2000.	500.	18.63	B02
NCGL104	36.0785	81.7040	0.18	39.	3.31	0.05	0.42	0.04	6.52	296.	2.49	2000.	500.	20.94	B02
NCGL107	36.0696	81.6946	0.24	28.	15.63	0.13	0.90	0.0	6.49	256.	8.16	2000.	500.	16.41	B02
NCGL108	36.0638	81.6964	0.24	36.	0.0	0.08	0.42	0.0	6.95	305.	2.37	2000.	500.	20.91	B02
NCGL110	36.0527	81.6947	0.28	41.	7.55	0.09	0.40	0.0	5.98	338.	5.95	0.	500.	16.58	B01
NCGL111	36.0580	81.7293	0.08	15.	0.0	0.0	0.21	0.02	5.36	311.	2.81	2000.	500.	15.88	B01
NCGL113	36.0295	81.7093	0.16	18.	3.31	0.05	0.24	0.0	6.96	306.	7.22	2000.	500.	13.04	B01
NCGL114	36.0301	81.6858	0.18	24.	5.27	0.04	0.44	0.11	6.47	337.	7.26	2000.	500.	14.74	B01
NCGL115	36.0113	81.6897	0.08	16.	2.33	0.03	0.12	0.0	6.30	230.	8.51	1900.	500.	19.30	B03

FIELD MEASUREMENT DATA

SITE CODE	LAT	LONG	ALKA	COND	SO4	NO3	PO4	NH3	PH	EH	O2	FILT	RESIN	TEMP	TEAM
NCGL201	36.0487	81.7019	0.20	31.	13.89	0.04	0.11	0.02	7.71	204.	5.04	2000.	500.	16.04	B03
NCGR001	36.0722	81.7525	0.12	22.	0.0	0.17	-0.01	0.0	7.03	232.	8.04	2000.	500.	15.28	B01
NCGR002	36.0546	81.7710	0.12	15.	5.27	0.04	0.79	0.10	7.11	276.	4.96	2000.	500.	10.90	B02
NCGR003	36.0688	81.7898	0.06	11.	7.55	0.10	-0.08	0.04	6.57	465.	7.92	2100.	500.	13.31	B01
NCGR004	36.0656	81.7974	0.08	12.	0.0	0.03	-0.06	0.0	6.75	220.	6.90	2100.	500.	13.49	B01
NCGR005	36.0359	81.8086	0.12	15.	3.31	0.00	0.13	0.50	6.70	177.	6.78	2000.	500.	14.44	B01
NCGR006	36.0351	81.8093	0.06	8.	7.14	0.03	0.09	0.03	6.46	226.	7.91	2000.	500.	13.11	B01
NCGR007	36.0206	81.7812	0.10	13.	0.0	0.07	-0.06	0.01	6.66	398.	8.81	2000.	500.	9.18	B01
NCGR008	36.0151	81.7638	0.12	15.	8.32	0.04	0.62	0.09	6.98	274.	6.05	2000.	500.	11.58	B02
NCGR009	36.0133	81.7928	0.14	16.	5.27	0.06	1.21	0.06	7.17	264.	5.85	2000.	500.	14.65	B02
NCGR010	36.0132	81.7945	0.08	12.	8.32	0.16	13.28	0.06	6.95	293.	6.61	2000.	500.	14.42	B02
NCGR011	36.0010	81.8038	0.06	13.	0.0	0.0	-0.10	0.0	6.42	736.	7.42	2100.	500.	14.53	B01
NCGR012	36.0003	81.8048	0.06	8.	0.0	0.0	-0.18	0.04	6.45	562.	7.64	2000.	500.	14.20	B01
NCGR013	36.0008	81.8091	0.06	8.	9.03	0.0	-0.08	0.0	6.25	777.	7.73	1300.	500.	14.13	B01
NCGR014	36.0007	81.8145	0.10	13.	5.79	0.05	0.03	0.03	6.82	300.	7.53	2100.	500.	14.38	B01
NCGR015	36.0003	81.8155	0.06	6.	7.94	0.01	-0.08	0.0	0.0	0.	7.73	2000.	500.	13.93	B01
NCGR016	36.0001	81.8244	0.08	64.	8.32	0.02	-0.12	0.12	7.22	351.	7.44	2000.	500.	14.60	B02
NCGR017	35.0007	81.8310	0.06	23.	9.03	0.01	-0.08	0.12	6.64	345.	7.08	2000.	500.	13.57	B03
NCGR018	36.0007	81.8322	0.06	22.	6.72	0.0	0.01	0.16	6.89	314.	7.61	2000.	500.	12.62	B03
NCGR019	36.0021	81.8355	0.08	11.	5.79	0.03	1.34	0.04	6.59	307.	5.96	2000.	500.	13.68	B02
NCGR020	35.0023	81.8395	0.10	12.	0.0	0.04	1.50	0.05	6.87	304.	4.81	2000.	500.	13.31	B02
NCGR021	36.0032	81.8397	0.06	10.	13.33	0.04	1.34	0.11	6.69	305.	6.33	2000.	500.	12.68	B02
NCGR022	36.0088	81.8535	0.06	9.	5.79	0.04	0.69	0.0	6.45	208.	6.84	2000.	500.	11.41	B02
NCGR023	36.0056	81.8609	0.04	7.	0.0	0.05	0.48	0.0	6.65	186.	4.56	2000.	500.	11.13	B02
NCGR024	36.0062	81.8617	0.06	9.	7.55	0.0	0.04	0.0	5.63	189.	6.09	2000.	500.	11.18	B02
NCGR025	35.0180	81.8174	0.08	11.	9.38	0.08	0.99	0.04	6.70	292.	6.71	2000.	500.	12.66	B02
NCGR026	36.0301	81.8426	0.06	9.	10.99	0.08	1.68	0.05	6.67	283.	7.18	2000.	500.	10.38	B02
NCGR027	36.0305	81.8414	0.06	8.	10.99	0.09	2.00	0.04	6.66	282.	7.14	2000.	500.	10.94	B02
NCGR028	35.0624	81.8614	0.06	14.	0.0	0.0	-0.08	0.18	6.42	270.	7.01	2100.	500.	14.37	B01
NCGR029	36.0942	81.8560	0.10	28.	4.06	0.18	0.03	0.16	6.58	196.	6.96	2000.	500.	14.52	B01
NCGR101	36.0765	81.7559	0.12	14.	6.72	0.02	0.08	0.0	7.13	145.	8.39	2200.	500.	15.33	B01
NCGR102	36.0601	81.7562	0.14	17.	0.0	0.04	1.44	0.0	6.44	299.	2.54	2000.	500.	16.88	B02
NCGR103	36.0725	81.7764	0.44	47.	0.0	0.08	0.34	0.0	6.78	252.	6.50	2000.	500.	13.77	B02
NCGR106	35.0034	81.8090	0.14	14.	7.65	0.03	0.01	0.01	6.29	230.	4.28	2000.	500.	15.24	B01
NCGR108	36.0088	81.7668	0.12	15.	4.70	0.05	0.09	0.0	7.24	348.	7.83	1600.	500.	13.18	B01
NCGR109	35.0041	81.7742	0.24	28.	7.55	0.04	0.84	0.01	6.50	308.	4.18	2000.	500.	13.21	B02
NCGR129	35.0951	81.8562	0.52	94.	6.72	0.06	0.08	0.0	6.17	236.	3.64	0.	500.	13.94	B01
NCGR228	36.0870	81.8280	0.06	29.	6.27	0.08	0.81	0.0	7.00	290.	2.61	2000.	500.	14.32	B02
NCLI001	35.9787	81.9195	0.12	26.	13.33	0.09	0.40	0.07	7.17	281.	9.63	1500.	500.	12.60	B03
NCLI101	35.9825	81.9099	0.05	9.	3.31	0.07	0.24	0.03	5.92	460.	7.60	2000.	500.	10.31	B01
NCLI102	35.9829	81.9834	0.30	42.	4.70	0.08	0.69	0.0	6.55	350.	6.90	2000.	500.	13.66	B01
NCNE001	36.0965	81.9125	0.08	18.	0.0	0.11	0.37	0.09	7.03	241.	6.74	2000.	500.	12.58	B02
NCNE002	36.0777	81.9200	0.20	44.	6.27	0.15	0.96	0.10	6.91	115.	5.82	2000.	500.	14.50	B02
NCNE003	36.0880	81.8784	0.12	14.	3.31	0.05	-0.05	0.0	6.86	290.	7.62	2000.	500.	11.99	B01
NCNE004	36.0694	81.8792	0.12	28.	3.31	0.10	-0.06	0.0	6.77	306.	7.33	2000.	500.	13.97	B01
NCNE005	36.0469	81.9146	0.18	33.	4.70	0.12	0.96	0.17	6.94	290.	5.53	2000.	500.	11.92	B02
NCNE006	36.0147	81.9241	0.18	39.	0.0	0.13	0.69	0.08	7.26	244.	6.84	2000.	500.	10.74	B02
NCNE007	35.0092	81.8953	0.12	18.	3.31	0.07	-0.01	0.0	6.28	172.	7.46	2000.	500.	11.35	B01
NCNE101	36.0865	81.9148	0.26	30.	10.04	0.07	0.69	0.05	6.31	224.	2.19	2000.	500.	13.53	B02

FIELD MEASUREMENT DATA

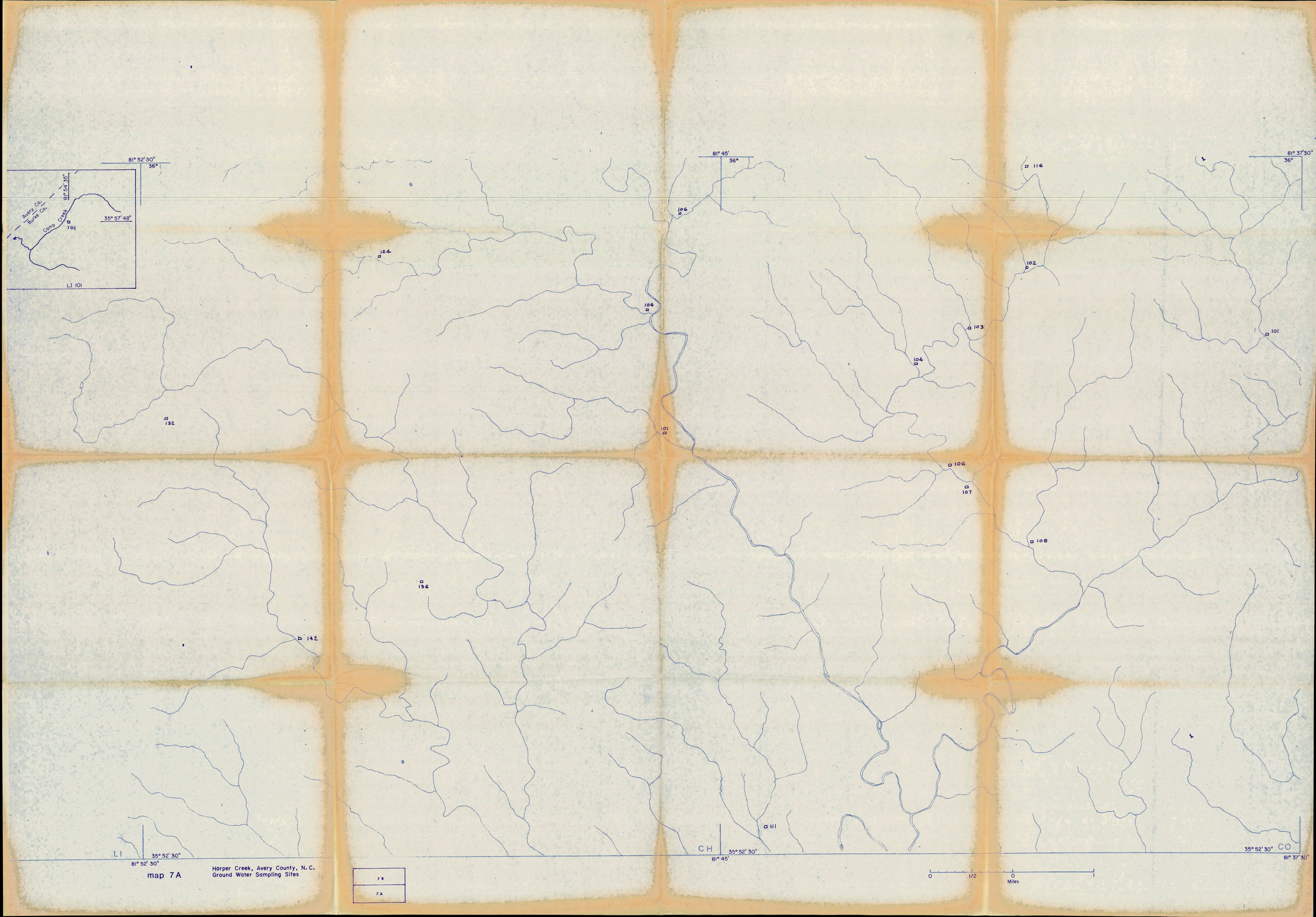
SITE CODE	LAT	LONG	ALKA	COND	SO4	NO3	PO4	NH3	PH	EH	O2	FILT	RESIN	TEMP	TEAM
NCNE102	36.0766	81.9247	0.26	141.	5.79	0.02	0.11	0.04	6.67	381.	3.26	0.	500.	16.01	B01
NCNE103	36.0872	81.8755	0.12	73.	0.0	0.19	-0.08	0.0	6.78	210.	6.68	2100.	500.	14.90	B01
NCNE104	36.0696	81.8809	0.24	47.	0.0	0.17	0.09	0.0	6.09	337.	4.80	2000.	500.	13.27	B01
NCNE105	36.0479	81.9157	0.52	63.	8.68	0.09	0.90	0.09	6.36	173.	1.12	2000.	500.	12.56	B02
NCNE106	35.0282	81.9373	0.22	43.	9.03	0.52	0.99	0.04	6.41	256.	3.19	2000.	500.	14.86	B02
NCNE107	36.0094	81.8960	0.08	34.	0.0	3.30	-0.08	0.08	5.29	255.	6.87	2000.	500.	15.72	B01

TABLE 18

Uranium Content of Ground Water from the Brush Creek Study Area, Mitchell and Yancey Counties, NC

Site Code	ppt U
NCBA	
001	23
002	58
003	37
004	37
005	23
006	39
007	25
008	1
009	70
010	26
011	52
NCBU	
001	12
002	127
003	61
004	23
005	29
NCHU	
*	
NCMI	
101	966
102	50
103	69
104	*
105	32
106	4
108	12
109	*
110	23
111	12
114	14
118	*
119	43
120	17
121	14
125	2
126	24
132	65
133	6
134	17
136	33

* Data Unavailable



map 7A

Harper Creek, Avery County, N.C.
Ground Water Sampling Sites

81° 52' 30"

NE

36° 7' 30"

81° 45'

GR

GL

36° 7' 30"

129

228

101

103

102

104

101

103

101

104

102

107

108

102

111

110

201

105

106

106

114

113

107

115

108

109

36° 00'

81° 52' 30"

36° 00'

81° 45'

0 1/2 0 1 Miles

map 7B Harper Creek, Avery County, N.C.
Ground Water Sampling Sites

33°N

32°45'

84°15'

84°00'

GABR001

GAFO001

GAYA001

VA036

Map #1 Lamar County, Ga. Study Area
Stream Sampling Sites

0 1 2 3 4 MILES

YATESVILLE, Ga.

BOLINGBROKE, Ga.

CRH

Quadrangle Index

Big Potato Creek

209
206
204
202
103
104
105
102
106
101
107
136
128
137
138
140
127
118
130
139
124
133
117
131
121
A 120
125
126
119
B 120
114
116
113
112
108
104
109
110
115
106
105
204
103
103
102

33°N

32°45'

84°15'

84°00'

Map #2 Lamar County, Ga. Study Area
Ground Water Sampling Sites

0 1/2 1 2 3 4 MILES

YATESVILLE, GA.

BOLINGBROKE GA.

35°00'

83°00'

83°7'30"

34°52'30"

Tamassee

Salem

Map #3 Oconee County, S.C. Study Area
Stream and Ground Water Sampling Sites

82° 15' W

36° N

NCHU | NCBA
NCBU | NCMI

001 002 003 004

001 002 003 004 005 006 007 008 009 010 011

001 002 003 004 005 006 007 008 009 010 011 012 013 014 015 016 017 018 019 020 021 022 023 024 025 026 027 028 029 030 031 032 033 034 035 036 037 038 040 043 044 045

NCBU 005

Map # 4 Brush Creek, Mitchell- Yancey County, N.C.
Stream Sampling Sites

0 ½ 0 1
MILE

CRH

82° 15′ W

36° N

NCHU NCBA NCBU NCMI

101 102 103 104 105 106 107 108 109 110 111 114 118 119 120 121 125 126 132 133 134 136 137 138 139 140 143 145 209 237 301 305

Map #5 Brush Creek, Mitchell-Yancy County, N.C.
Ground Water Sampling Sites

0 ½ 0 1
MILE

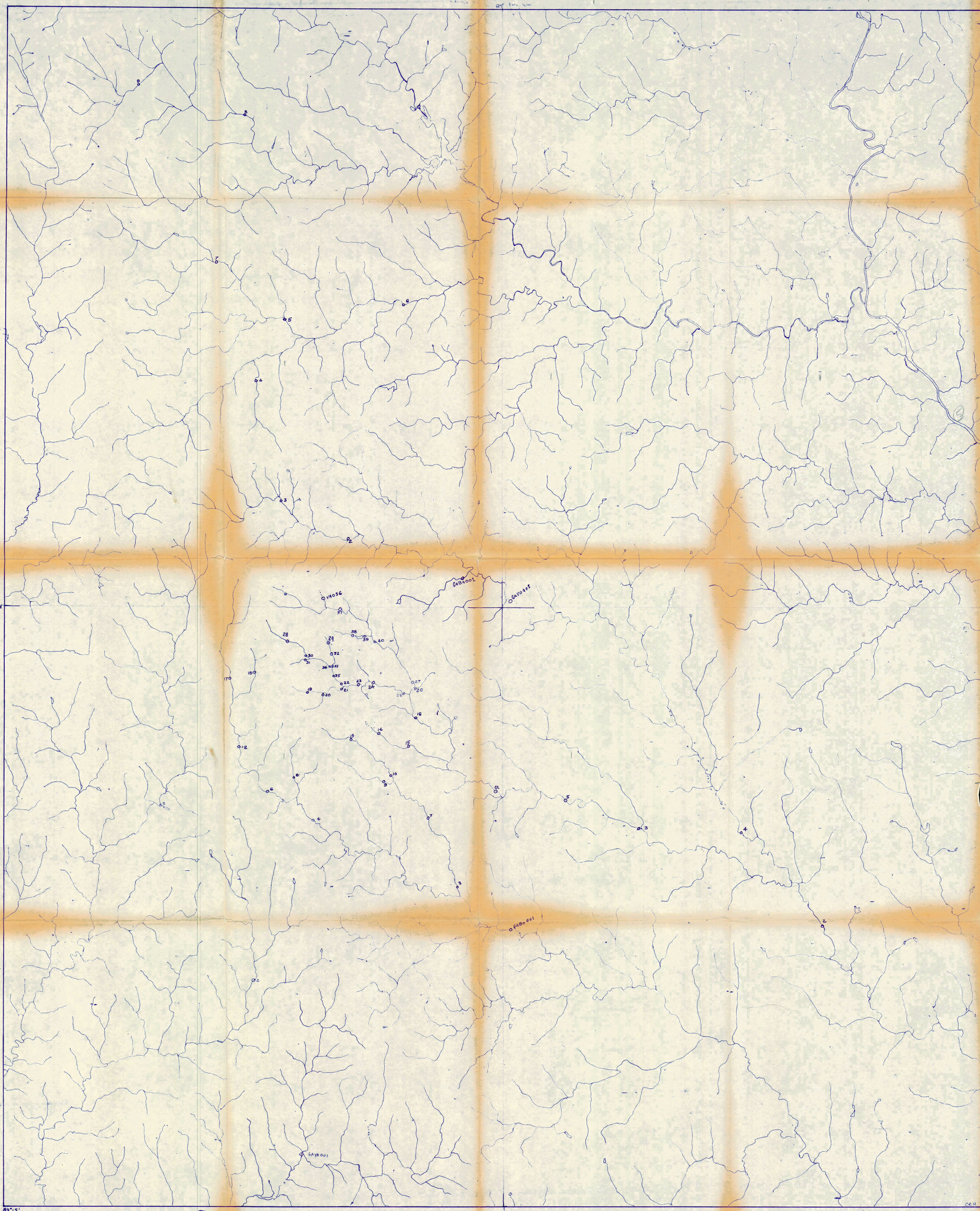
CRIT

Map 6 Harper Creek, Avery County, N.C.
Stream Sampling Sites

1/2 0 1
MILE
Surface Sites



NCNE
NCLI
NCGR
NCCH
NCGL
NCCO
81°52'30"
36°00'
81°45'
36°00'
Map#7 Harper Creek, Avery County, N.C.
Ground Water Sampling Sites
1 ½ 0 1
MILE
Ground Sites



Map 1 Lamar County, Ga. Study Area
Stream Sampling Sites

Map #2 Lamar County, Ga. Study Area
Ground Water Sampling Sites

84°15'

84°00'

32°45'

33°N

YATESVILLE, Ga.

BOLINGBROKE Ga.

35°00'

83°00'

044
021
001
002
046
021
002
037
001
043
042
008
003
007
045
004
032
009
006
040
005
041
012
011
010
013
014
015
101
033
018
047
018
019
025
020
103
034
026
036
035
102
022
105
027
104
017
028
029
030
023
024

83°07'30"

34°52'30"

83°00'

34°52'30"

Map #3 Oconee County, S.C. Study Area
Stream and Ground Water Sampling Sites

Tamassee

Salem

ORH

82° 15' W

36° N

NCHU
NCBA
NCBU
NCMI

001
002
003
004
005
006
007
008
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021
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031
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035
036
037
038
040
043
044
045

NCBU 005

0 ½ 0 1
MILE

CEH

Map #4 Brush Creek, Mitchell-Yancey County, N.C.
Stream Sampling Sites

82° 15' W

36° N

NCHU NCBA NCBU NCMI

101 102 103 104 105 106 107 108 109 110 111 114 118 119 120 121 125 126 132 133 134 136 137 138 139 140 143 145 209 237 301 305

Map #5 Brush Creek, Mitchell-Yancy County, N.C.
Ground Water Sampling Sites

0 ½ 0 1
MILE

Map 6 Harper Creek, Avery County, N.C.
Stream Sampling Sites

NCNE 81°52'30" 36°00'
NCLI

NCGR 81°45' 36°00'
NCCH
NCGL
NCCO

1 ½ 0 1
MILE
Surface Sites

102
104
105
106
107
NCNE
NCLI
81°52'30"
36°00'
101
103
102
111
106
108
109
NCGR
81°45'
36°00'
NCGL
NCCH
NCCO
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107
108

Map 7 Harper Creek, Avery County, N.C.
Ground Water Sampling Sites

1 ½ 0 1
MILE
Ground Sites