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**EPA**

# Federal Reporting Data System (FRDS-II)

## Interactive Retrieval Users Guide

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**SECTION 1**  
**INTRODUCTION**

## SECTION I - INTRODUCTION

### 1.1 PURPOSE

The Federal Reporting Data System (FRDS-II) is designed to support the Environmental Protection Agency (EPA) Office of Drinking Water (ODW) in monitoring compliance with the Safe Drinking Water Act of 1974. FRDS-II/Interactive provides EPA Headquarters, Regional, and State personnel with a convenient, easy-to-use facility for searching through the files of FRDS-II and retrieving the information available for each Public Water System (PWS).

This release of the FRDS-II/Interactive Retrieval System User's Guide does not include all functions and capabilities that will eventually be incorporated into the FRDS-II System. This release is intended for use with the FRDS-II Base-line, which will have a limited number of functions. All functions that are unavailable in the FRDS-II Base-line System will be noted in the Table of Contents and in the text as "NOT AVAILABLE" or "N/A".

### 1.2 DESIGN PHILOSOPHY

FRDS first became operational in Federal Fiscal year 1977, and was designed to satisfy the need for Federal oversight of the Public Water Supply Supervision (PWSS) program. At that time, summary data for each PWS was collected on an annual basis and forwarded to the EPA National Computer Center (NCC) at Research Triangle Park (RTP), North Carolina and loaded into a SYSTEM 2000 (S2K) data base residing on EPA's Univac 1108 computer system.

During fiscal years 1978-1984, this process was repeated annually with an entirely separate, and new, data base being generated by EPA for each Federal fiscal year of data being reported by primacy agencies. Also during this period of time, there were several operational and technical changes made to FRDS, such as the migration of the FRDS data base from the UNIVAC 1108 to the IBM 370. None of these changes, however, had an impact on the primacy agency reporting.

In fiscal year 1985, the EPA Office of Drinking Water (ODW) issued guidance requiring primacy agencies to report their data on a quarterly, rather than an annual basis. Shortly after the end of each quarter, EPA combined the most recently submitted quarterly data with the data submitted over the prior three quarters and generates a FRDS data base containing four quarters of data. This method of data gathering (FRDS 1.5) is untenable for the long term because of the inherent problems in data management and technical limitations in conducting effective oversight for periods of over 12 months.

In 1985, EPA initiated an effort to evaluate and revise, as appropriate, the Federal reporting requirements for the Public Water Supply Supervision (PWSS) program. This effort resulted in the publication of Water Supply Guidance V-2, Public Water Supervision Revised Reporting Requirements (RRR). As a result, FRDS-II has been designed to meet the needs of the RRR, and increase the flexibility of FRDS to meet the present and future information needs envisioned by the PWSS program. FRDS-II will accommodate four major modifications in addition

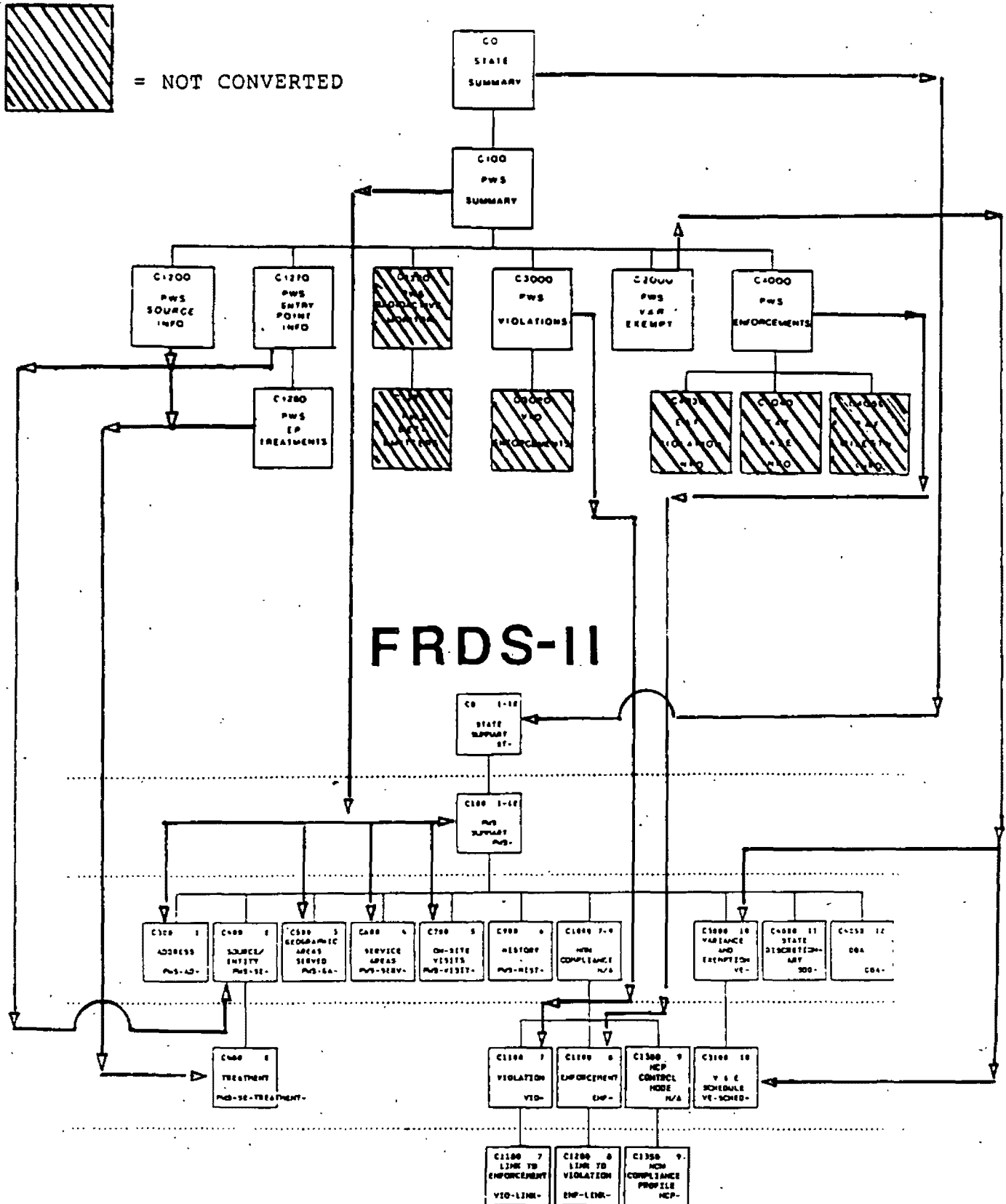
to the incorporation of many new features. The major modifications include: Data Base Integration; Non-Compliance Tracking; Historical Data Retention; and Storage of State Discretionary Data.

As noted earlier, the original FRDS concept was to generate a totally new and separate FRDS data base for each submission of data from primacy agencies. This has resulted in the generation of 12 different FRDS data bases, each containing similar information on Inventory and a summary of each fiscal year's Actions (Violations, Variances & Exemptions, and Enforcement Actions). In contrast, FRDS-II will contain a single Inventory (representing the most recent Inventory submission by primacy agencies) and all of the Actions for the past 8 years. This "Continuum" data base will maintain approximately 8 years of Actions (except for Chemical and Radiological contaminant related actions, which will be retained for 20 years) with new quarterly reported Actions being added and old Actions reported more than 8 years prior to any FRDS-II update being archived.

FRDS-II incorporates a significantly different structure than that of FRDS 1.5. The following page portrays FRDS 1.5 and the locations in the FRDS-II structure where like data will be stored.

FRDS-II/Interactive is an interactive tool used by clerical, professional, and management personnel who are familiar with

# FRDS 1.5



the type of information stored in FRDS data base. However, technical knowledge of computers is not needed in order to operate the system.

The design philosophy of FRDS-II/Interactive focused on system use by non-technical personnel. The system was developed and continues to be enhanced with the following as guidelines:

- 1) The terminology used is that of the PWS program.
- 2) Help is available by entering "?" to any prompt issued by the system allowing you to determine possible answers to the question being asked.
- 3) A User Assistance hotline makes fast problem resolution possible.
- 4) Users' wants and needs are considered in developing new FRDS-II/Interactive features.

### 1.3 CONSTRAINTS

Several constraints are inherent in the design of FRDS-II/Interactive. They are as follows:

- 1) On-line updating of the FRDS-II Data Base is not supported.
- 2) In the prompted features of FRDS-II/Interactive a user can only select information based upon answers to previously defined questions.

- 3) Updating the FRDS-II data base takes priority over retrievals from the data base at selected times during the year. Notification of the update activity is published in broadcast messages well in advance of and during the time of these occurrences. Typically, updates are performed after 4 P.M. Eastern Time.

#### 1.4 FRDS-II DATA BASE FEATURES

Typical of most good information systems, FRDS has accommodated many changes as part of its normal growth pattern. The most significant change thus far, has been in supporting the shift from an annual to a quarterly reporting requirement that was implemented in FRDS 1.5. The resultant FRDS 1.5 system consisted of 10 data bases with a total of 2.5 billion characters. The increasing emphasis upon FRDS as an oversight support system, especially with respect to effective tracking of enforcement activity, placed a burden upon the FRDS 1.5 system. It became more and more apparent that in its present configuration, FRDS became too unwieldy to support the expanding needs of the Drinking Water Program.

With the revisions to the Safe Drinking Water Act and the subsequent publication of the Revised Reporting Requirements, FRDS-II has been developed.

FRDS-II is intended to increase the flexibility of FRDS to meet the present and foreseeable future information demands placed upon the system. To meet this objective, FRDS-II will



accommodate five major modifications in addition to several new features. As mentioned in Section 1.2, these major modifications are as follows:

- o Data Base Integration - This effort combined (or integrated) the last nine FY data bases which contained the most current PWS information. The resulting data base is a single data base which is available for updating and retrieval. For this integration process, a "Matching Algorithm" was developed and employed to ensure the most effective match between PWSs as possible. Non-matching PWSs were flagged as "historical" for subsequent analysis and clean-up.
- o Non-Compliance Tracking - This feature adds a non-compliance profile record to the FRDS-II data base. This will allow for the generation of 3-month, 12-month, 24-month, 36-month, and 48-month "compliance windows" for each PWS having an enforcement and/or violation action reported against it during the last five years (seven years for CHEM and RAD violations). These records are generated whenever additional violation or enforcement actions are entered for the PWS.
- o Historical Data Retention - This feature will allow insertion of historical data records into the FRDS-II data base whenever significant changes are detected to the continuum FRDS-II inventory. Insertion of these historical records is automatic and will highlight the date and nature of the change.

- o Storage of State Discretionary Data - This feature will provide the capability for primacy agencies to store and retrieve whatever numerical, date or textual data within their portion of the FRDS-II data base.

In addition to the four modifications noted above, design differences between FRDS 1.5 and FRDS-II afforded the opportunity to change data element numbers in the FRDS-II system.

#### 1.4.1 FRDS 1.5 vs. FRDS-II RETRIEVAL CAPABILITIES

Considerable effort has been made to adapt the current FRDS/Interactive retrieval system to the new FRDS-II data base structure and content while concurrently incorporating new, needed capabilities into the system. Future implementation will proceed in a phased manner until all currently used FRDS 1.5 capabilities are available in FRDS-II. Additional retrieval capabilities will include:

- a) The ability to select PWSs, for either batch or interactive reports, based upon any combination of data contained in the Non-Compliance Profile Records.
- b) The ability to select PWSs, for either batch or interactive reports, based upon any State Discretionary Data (SDD) records in the data base.
- c) The ability to select PWSs, for either batch or interactive reports, based upon a PWS's meeting criteria to be a Significant Non-Complier (SNC).

- d) The ability to have batch reports include ONLY those violations used in establishing selection criteria.
- e) The ability to search, in a single data base, for all of the significant information previously contained in the 12 separate fiscal year data bases maintained under FRDS 1.5. Additionally, the capability to restrict the search to a specific fiscal year period remains intact.

## 1.5 USER PROFILE

The FRDS-II/Interactive user community includes the following:

- 1) EPA ODW
- 2) FRDS-II Data Base Administrator (DBA)
- 3) FRDS-II Production Control and User Support
- 4) EPA Regions
- 5) State users

The FRDS-II DBA and FRDS-II Production Control perform necessary data base maintenance functions including updating, backup, recovery, archiving, and reloading.

This manual contains all the necessary information for you to generate batch and on-line reports through FRDS-II/Interactive. However, for further information and assistance contact the following:

- 1) National Computer Center (NCC)-IBM User Support  
NCC  
(919) 541-7862  
1-(800) 334-2405  
(FTS) 629-7862
- 2) FRDS-II User Assistance/FRDS Production Control  
PRC  
(703) 556-1411
- 3) FRDS-II DBA  
ODW Data Management Staff  
(FTS) 382-2799

## 1.6 FRDS-II/INTERACTIVE RETRIEVAL SYSTEM USER'S GUIDE

### ORGANIZATION

This document describes FRDS-II/Interactive to the non-technical user including what it does and how to use it.

Section 1 provides an introduction to the system's purpose, design philosophy, constraints, new features, and user community.

Section 2 provides an overview of the system and its retrieval functions, and a summary of its operational environment, equipment, and security.

Section 3 provides a guide to the operation of the system. It describes procedures for initiation, operation, error and recovery, and exiting.

Section 4 provides a guide for using the Main Menu. It describes the Main Menu and each of its selections.

Section 5 provides a guide for using the Post-retrieval Processing Options Menu. It describes the Post-retrieval Processing Options Menu and each of its selections along with report examples for each selection.

Sample interactive sessions are displayed throughout this document, with each session being annotated so as to better explain various FRDS-II/Interactive functions to the user.

**SECTION 2**  
**SYSTEM SUMMARY**

## SECTION 2 - SYSTEM SUMMARY

### 2.1 SYSTEM OVERVIEW

FRDS-II/Interactive provides a flexible means of retrieving and reporting PWS data.

EIGHT types of PWS data are maintained in the FRDS-II DATA BASE:

- 1) Summary data including identification and statistical summary information for each PWS
- 2) Inventory data including source information, source treatments, address information, service areas, geographic areas, and historical information
- 3) Violation data including information pertaining to a PWS's non-compliance with EPA and/or primacy standards
- 4) Variance, exemption, and other data including information pertaining to primacy agency exceptions to a PWSs normal standards and turbidity waiver information
- 5) Enforcement action data including information pertaining to legal actions taken against a PWS
- 6) Non-compliance profiles
- 7) State discretionary data
- 8) On-site visit data

FRDS-II/Interactive presents a question and answer session allowing you to perform several functions in order to gain information from the FRDS-II data base. These functions are:

- 1) Formulate selection criteria for use in finding information from the data base
- 2) Search through the data base to find PWSs which satisfy the specified selection criteria
- 3) Produce various reports required for analysis of program implementation and other related uses

## 2.2 RETRIEVAL OVERVIEW

FRDS-II/Interactive data retrieval functions can be divided into several components:

- 1) Establishing the search criteria or domain
- 2) Searching the data base
- 3) Extracting selected PWS data
- 4) Presenting the selected data in an appropriate format

The illustration on page 2-5 depicts the data base architecture of FRDS-II under the System 2000 (S2K) data base management system.

### 2.2.1 Establishing the Search Domain

In the user defined version of FRDS-II/Interactive, the only search domain that can be established is determined by a locate or search of the entire data base. There are two gross levels of this search domain as follows:



- 1) Search the data base for one or more PWSs which meet certain criteria
- 2) Search the data base for violations that are recorded against PWSs which meet certain criteria

#### 2.2.2 Searching the Data Base

Once the retrieval statement has been formulated you can submit it to FRDS-II/Interactive for automatic searching of the data base.

#### 2.2.3 Extracting and Presenting the Data

Once the data has been retrieved from the FRDS-II data base it is available for presentation in several output formats.

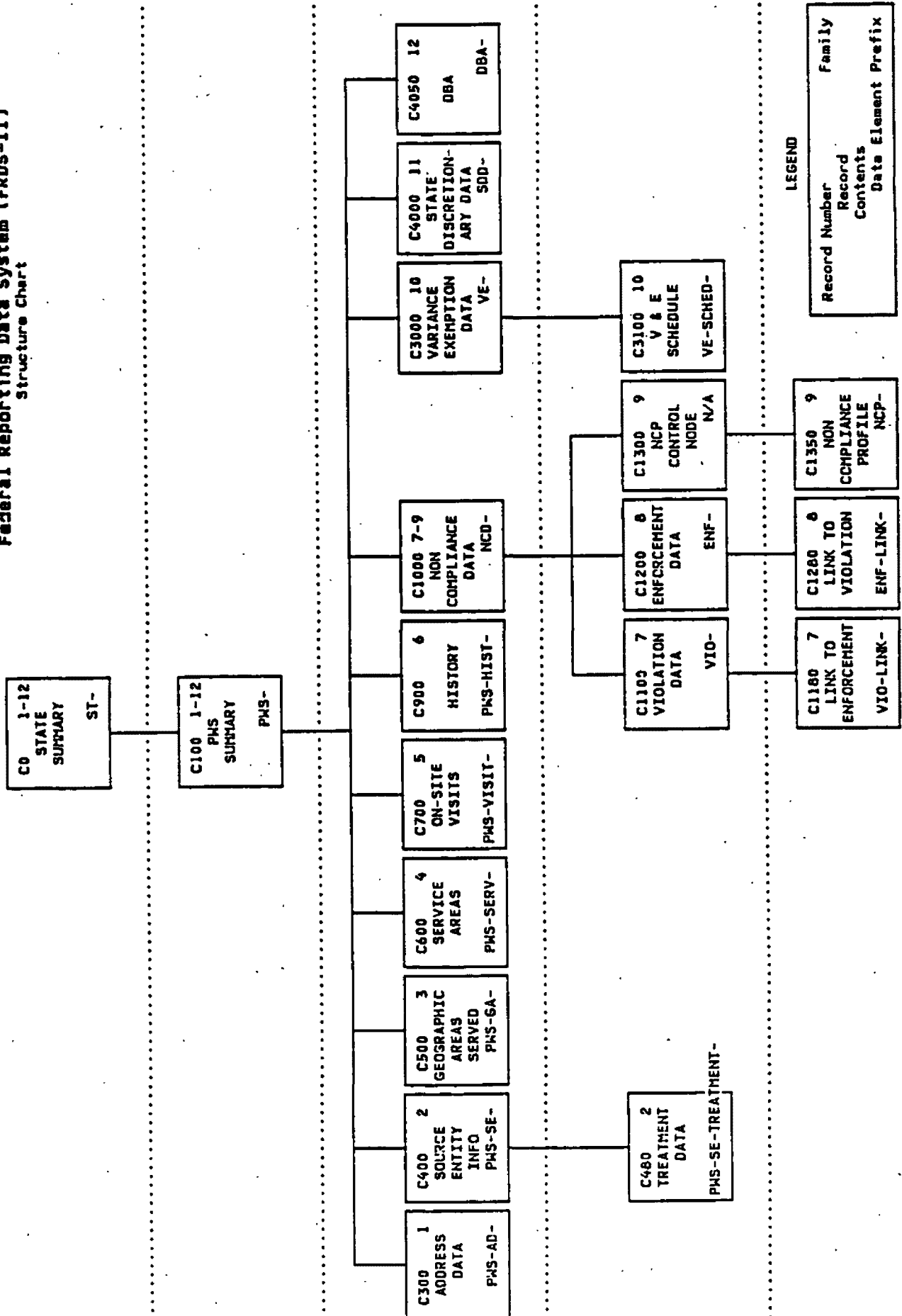
### 2.3 OPERATIONAL ENVIRONMENT

FRDS-II/Interactive operates at EPA's National Computer Center (NCC) on an IBM 3090/600-S computer located in Research Triangle Park, NC and uses VS COBOL II Programming Language Extension (PLEX). To obtain access to FRDS-II/Interactive, contact FRDS-II User Support, as noted in Section 1.5. When authorized to access the FRDS-II data base, each new user will be assigned:

- 1) User ID and password
- 2) NCC account number.

FRDS-II/Interactive, operating under the Time Sharing Option (TSO) of the IBM system, provides all the necessary user interface facilities for its operation.

**Federal Reporting Data System (FRDS-II)**  
Structure Chart



## 2.4 EQUIPMENT

Use of FRDS-II/Interactive requires an approved interactive terminal or PC with a telephone connection to NCC in Research Triangle Park, NC. In order to gain access to FRDS-II/Interactive you must logon and enter TSO.

In addition to an approved terminal or PC, use of FRDS-II/Interactive also requires the following from NCC:

- 1) Telephone access number
- 2) User ID and Password
- 3) Nine-digit account code consisting of a four-digit NCC account ID and a five-digit FRDS-II project ID
- 4) Access to TSO
- 5) Validation for the \$EPATSO logon procedure
- 6) Validation for FRDS-II access.

The following is required from the FRDS-II User Assistance staff:

- 1) Inclusion in the FRDS-II/Interactive users profile file.

The following is required from the user's own staff:

- 1) Bin/box number
- 2) Remote printer number.

## 2.5 SECURITY

Several types and levels of security protect the data in the FRDS-II data base. Anyone wishing to access the data base would have to know and be authorized to use the following:

- 1) A valid user ID for the NCC system
- 2) A valid account number for the NCC system
- 3) The appropriate password for the NCC computer account
- 4) FRDS-II/Interactive authorization
- 5) Elementary knowledge of TSO
- 6) \$EPATSO logon procedure



**SECTION 3**  
**SYSTEM OPERATION**

## SECTION 3 - SYSTEM OPERATION

### 3.1 INITIATION PROCEDURES

Initiation procedures for FRDS-II/Interactive vary according to geographical location. To logon, follow the procedure in Section 3.1.1, 3.1.2, 3.1.3, or 3.1.4 appropriate to your location.

#### 3.1.1 Logon for Locations Using the TYMNET Communications System

TYMNET provides NCC with national and international access for FRDS-II/Interactive users. This access is available in over 400 cities in the United States through locally dialed numbers. TYMNET provides WATS access numbers to users in areas where local numbers are not available.

To obtain current TYMNET telephone access numbers, refer to Section 1.5 in contacting FRDS-II User Assistance or call NCC Telecommunications Support at one of the telephone numbers below:

NCC Telecommunications Support

(919) 541-4506

1 (800) 334-0741

(FTS) 629-4506

The logon procedure for locations using the TYMNET communications system consists of the following:

- o Refer to Section 2.4 for the required parameters of terminal operation.
- o Turn on power switches of the terminal and modem if necessary.
- o Determine the type of telephone communication equipment in use and follow the appropriate method as indicated below:

- Personal Computer with an internal or external modem

Direct the communication software (e.g., CROSSTALK, PROCOMM, etc.) to dial the telephone access number applicable to the session location.

- Data Telephone

Push the 'talk/clear' button on the telephone. Dial the telephone access number applicable to the session location. Wait for ringing, an answer, and a data tone. Press the red button. Wait until the 'talk/clear' button light indicates that a connection has been made with NCC from the geographical location of the session.

- Modem with an Acoustic Coupler

Dial the telephone access number applicable to the session location. Wait for ringing, an answer, and a data tone. Attach the telephone



receiver to the coupler. Wait until the light on the coupler indicates that a connection has been made with NCC from the geographical location of the session.

- **Terminals with Acoustic Couplers**

Dial the telephone access number applicable to the session location. Wait for ringing, an answer, and a data tone. Attach the telephone receiver to the coupler. Wait until the light on the terminal indicates that a connection has been made with NCC from the geographical location of the session.

- Press the carriage return or enter key.

- Follow the sample session on the next page for the remainder of the logon.

**3.1.2 Logon for Users Dialing in Washington, DC and Research Triangle Park, NC**

Users in Washington, DC and Research Triangle Park, NC access FRDS-II/Interactive with facilities other than TYMNET. In Washington, DC users gain access through statistical multiplexers while Research Triangle Park, NC users have direct access to the system.

To obtain current telephone access numbers in Washington, DC refer to Section 1.5 in contacting FRDS-II User Assistance or Section 3.1.1 in contacting NCC Telecommunications Support.

```

please type your terminal identifier          <- - - 1
-0561:01-020-                               <- - - 2
please log in: epa2                         <- - - 3

WPC2 CONNECT                               <- - - 4

NODE 10372  HOST 1392: IBM1 IS ON LINE      <- - - 5

Welcome to the Environmental Protection Agency National Computer Center

      Please enter one of the following selections:

      IBMP51 for IBM
      TCP for IBM 3270 EMULATION
      VAXA for VAX SYS A
      VAXB for VAX SYS B
      EMAIL for EMAIL

Enter selection:ibmp51                      <- - - 6
Connected.

U.S. EPA (TTY-X25-IBM)

  A TSO - NCC
  B NY
  C NEIC
  D NIC
  E SEATTLE
  F ATLANTA
  G DALLAS
  I KANSAS CITY
  J PHILADELPHIA
  K CINCINNATI
  L SAN FRANCISCO
  M BOSTON
  N CHICAGO

SELECTION ?a                               <- - - 7

EPA200  ENTER USERID -                     <- - - 8
:xxxxxx
EPA202  ENTER CURRENT PASSWORD FOR login - <- - - 9
:xxxxxx
EPA207  ENTER ACCOUNT NUMBER - OR "*" FOR yyyy <- - - 10
*
EPA209  ENTER PROCEDURE NAME - OR "*" FOR $EPATSO <- - - 11
*
EPA211  ENTER FIMAS ID - OR "*" FOR zzzzz <- - - 12
*
EPA213  ENTER BIN NUMBER - OR "*" FOR dddd <- - - 13
*
EPA250  Default REGION SIZE is 6500        <- - - 14
ICH70001I  LAST ACCESS AT 14:56:28 ON MONDAY, OCTOBER 23, 1989
IKJ56455I  LOGON IN PROGRESS AT 14:59:39 ON OCTOBER 23, 1989
continues on next page

```

continued from previous page

- 1 <- - - For a valid response on your terminal, refer to Section 1.5 in  
contacting FRDS User Assistance.
- 2 <- - - System message.
- 3 <- - - System logon information applicable to all users.
- 4 <- - - System message.
- 5 <- - - Indicates a successful connection to the system.
- 6 <- - - The user specified a line terminal.
- 7 <- - - The user selected TSO.
- 8 <- - - ~~xxx~~ = User ID assigned by NCC.
- 9 <- - - ~~xxxxxx~~ = Password known only to the user. Passwords must  
be six characters in length with at least one of the characters  
being numeric (0 - 9). The first character of the password  
must contain an alphabetic character (A - Z).
- 10 <- - - yyyy = Account number assigned to the user by NCC.
- 11 <- - - \$EPATSO = TSO procedure name.
- 12 <- - - zzzzz = ADP utilization identifier assigned to the user by NCC.
- 13 <- - - dddd = The user's bin number.
- 14 <- - - 6500 = Region size. When logging on to NCC for the first  
time, the region size is established and thereafter will  
default to that initial setting. The region size must be  
set to a minimum of 6500 or the FRDS-II/Interactive session  
will abnormally end because there will not be enough space  
for the system to execute.

Note: Once the responses for prompts for numbers 10 - 13 (above)  
have initially been made, the user need only respond with an  
asterisk (\*) to each of those prompts, if those values are to  
remain the same for the user's session.

Users in Research Triangle Park, NC have direct access to FRDS-II/Interactive by dialing 541-4642.

The logon procedure for locations using facilities other than TYMNET consists of the following:

- o Refer to Section 2.4 for the required parameters of terminal operation.
- o Turn on power switches of the terminal and modem if necessary.
- o Determine the type of telephone communication equipment in use and follow the appropriate method as indicated below:

- Data Telephone

Push the 'talk/clear' button on the telephone. Dial the telephone access number applicable to the session location. Wait for ringing, an answer, and a data tone. Press the red button. Wait until the 'talk/clear' button light indicated that a connection has been made with NCC from the geographical location of the session.

- Modem with an Acoustic Coupler

Dial the telephone access number applicable to the session location. Wait for ringing, an answer, and a data tone. Attach the telephone receiver to the coupler. Wait until the light on the coupler.

indicates that a connection has been made with NCC from the geographical location of the session.

- **Terminals with Acoustic Couplers**

Dial the telephone access number applicable to the session location. Wait for ringing, an answer, and a data tone. Attach the telephone receiver to the coupler. Wait until the light on the terminal indicates that a connection has been made with NCC from the geographical location of the session.

- o Follow the sample session on the next page for the remainder of the logon.

WELCOME TO THE ENVIRONMENTAL PROTECTION AGENCY

HEADQUARTERS DATA SWITCH

TO ACCESS:

IBM (TTY)  
IBM 3270 EMULATION  
EPA/DIALCOM ELECTRONIC MAIL  
PRIME  
VAX  
MODEM POOL  
OTHER SERVICES

TYPE:

IBMPSI  
TCP  
EMAIL  
system name  
system name  
MODEM  
HELP

NEED HELP? TYPE HELP

YOUR SELECTION?> ibmpsi

Connecting to RTP Data Switch.  
WIC1-3671/06 CONNECTED TO MUXA/04

Connected.

U.S. EPA (TTY-X25-IBM)

A TSO - NCC  
B NY  
C NEIC  
D WIC  
E SEATTLE  
F ATLANTA  
G DALLAS  
I KANSAS CITY  
J PHILADELPHIA  
K CINCINNATI  
L SAN FRANCISCO  
M BOSTON  
N CHICAGO

SELECTION ?a

EPA200 ENTER USERID -

EPA202 ENTER CURRENT PASSWORD FOR user -

:XXXXXXXX

:EPA207 ENTER ACCOUNT NUMBER - OR "\*" FOR yyyy

\*

EPA209 ENTER PROCEDURE NAME - OR "\*" FOR \$EPATSO

\*

EPA211 ENTER FIMAS ID - OR "\*" FOR zzzzz

\*

EPA213 ENTER BIN NUMBER - OR "\*" FOR dddd

\*

EPA250 Default REGION SIZE is 6500

continues on next page

<- - - 1  
|  
<- - - 2  
|  
<- - - 3  
|  
<- - - 4  
|  
<- - - 5  
|  
<- - - 6  
|  
<- - - 7  
|  
<- - - 8

continued from previous page

- 1 <- - - The user selected TSO.
- 2 <- - - www = User ID assigned by NCC.
- 3 <- - - xxxxxx = Password known only to the user. Passwords must be six characters in length with at least one of the characters being numeric (0 - 9). The first character of the password must contain an alphabetic character (A - Z).
- 4 <- - - yyyy = Account number assigned to the user by NCC.
- 5 <- - - \$EPATSO = TSO procedure name.
- 6 <- - - zzzzz = ADP utilization identifier assigned to the user by NCC.
- 7 <- - - dddd = The users bin number.
- 8 <- - - 6500 = Region size. When logging on to NCC for the first time, the region size is established and thereafter will default to that initial setting. The region size must be set to a minimum of 6500 or the FROS-II/Interactive session will abnormally end because there will not be enough space for the system to execute.

Note: Once the the responses for prompts for numbers 4 - 7 (above) have initially been made, the user need only respond with an asterisk (\*) to each of those prompts, if those values are to remain the same for the user's session.

### 3.1.3 Telecommunications for PC Users

Users may access FRDS-II with personal computers with the use of "CROSSTALK", an EPA standard which may be used to establish communications through TYMNET or other facilities.

### 3.1.4 Full-Screen Access

Some users may wish to access FRDS-II in "Full-Screen" mode. The sample session on the next page shows the "Full-Screen" logon procedure. It is worthwhile to note that "Full-Screen" mode is generally intolerably slow when doing a screen refresh, unless a modem capable of at least 4800 Baud is used.



WELCOME TO THE ENVIRONMENTAL PROTECTION AGENCY  
HEADQUARTERS DATA SWITCH

TO ACCESS:	TYPE:
IBM (TTY)	IBMPSI
IBM 3270 EMULATION	TCP
EPA/DIALCOM ELECTRONIC MAIL	EMAIL
PRIME	system name
VAX	system name
MODEM POOL	MODEM
OTHER SERVICES	HELP

NEED HELP? TYPE HELP

```

YOUR SELECTION?>tcp                                <- - - 1
Connecting to the WIC TCP

WIC-3671/05 CONNECTED TO S0601002                    <- - - 2
-----
** CX-80 VER 04.83 **                                <- - - 3
-----
WELCOME TO THE
U.S. ENVIRONMENTAL PROTECTION AGENCY
TELECOMMUNICATIONS NETWORK

ENTER COMMAND OR M FOR MENU                          <- - - 4
tso
  
```

- 1 <- - - 'TCP' is selected for full-screen access.
- 2 <- - - For a valid response on your terminal, refer to Section 1.5 in contacting FRDS User Assistance.
- 3 <- - - System message.
- 4 <- - - TSD is selected.

NOTE: The hyphenated lines shown in the above simulation are not part of the actual screen displays, but are meant to indicate that the various prompts and user replies are displayed on individual screens.

----- EPA2 TSO/E LOGON -----T2402720			
PF1/PF13 ==> Help	PF3/PF15 ==> Logoff	PA1 ==> Attention	PA2 ==> Reshow
ENTER LOGON PARAMETERS BELOW:		RACF LOGON PARAMETERS:	
USERID	==> mmm		<- - - 1
PASSWORD	==> xxxxxx	NEW PASSWORD ==>	<- - - 2
PROCEDURE	==> \$EPATSO	GROUP IDENT ==>	
ACCT N°BR	==> yyyy		<- - - 3
FIMAS	==> zzzzz	BIN NUMBER ==>	<- - - 4
SIZE	==> 6500	SYSOUT DEST ==>	
COMMAND	==>		
ENTER AN "S" BEFORE EACH OPTION DESIRED BELOW			
-NOMAIL	-NONOTICE	-NOSUMMARY	-CANCEL
-----			
ICH70001I LVE LAST ACCESS AT 14:56:28 ON MONDAY, OCTOBER 23, 1989			
IKJ56455I LVE LOGON IN PROGRESS AT 14:59:39 ON OCTOBER 23, 1989			
READY			

1	<- - -	mmm = The user ID assigned to the user by NCC.
2	<- - -	xxxxxx = The password known only to the user.
3	<- - -	yyyy = The account number assigned to the user by NCC.
4	<- - -	zzzzz = The ADP utilization identifier assigned to the user by NCC.
NOTE: The hyphenated lines shown in the above simulation are not part of the actual screen displays, but are meant to indicate that the various prompts and user replies are displayed on individual screens.		

### 3.1.5 Logon in Case of Terminal Disconnection

If the connection between your terminal and NCC is broken due to telephone communication problems, power failure, or the like refer to Sections 3.1.1, 3.1.2, 3.1.3, or 3.1.4 in immediately performing a logon following steps one through four of the procedure appropriate to your geographical location. Then follow the sample session on the next page for the remainder of the logon. You have 30 minutes from the time of disconnection to follow this method. After that time refer to Section 3.1.1, 3.1.2, 3.1.3, or 3.1.4 in performing a complete logon following the procedure appropriate to your geographical location.

## 3.2 OPERATIONAL PROCEDURES

The operational strategy for FRDS-II/Interactive is:

- 1) To execute FRDS-II/Interactive CLIST
- 2) To begin FRDS-II/Interactive
- 3) To access the integrated FRDS-II data base
- 4) To select PWSs
- 5) To identify report formats for retrieved data and generate reports.

### 3.2.1 Executing FRDS-II/Interactive

After logon the system displays the following message:

READY

If you are using an ASCII Terminal you must enter the following TSO command at the ready prompt prior to executing FRDS-II/Interactive. "TERM TRAN(NPSI)"

WELCOME TO THE ENVIRONMENTAL PROTECTION AGENCY

HEADQUARTERS DATA SWITCH

TO ACCESS:

IBM (TTY)  
IBM 3270 EMULATION  
EPA/DIALCOM ELECTRONIC MAIL  
PRIME  
VAX  
MODEM POOL  
OTHER SERVICES

TYPE:

IBMP51  
TCP  
EMAIL  
system name  
system name  
MODEM  
HELP

NEED HELP? TYPE HELP

YOUR SELECTION?> ibmpsi

Connecting to RTP Data Switch.  
WIC1-3671/06 CONNECTED TO MUXA/04  
Connected.

U.S. EPA (TTY-X25-IBM)

A TSO - NCC  
B NY  
C NEIC  
D WIC  
E SEATTLE  
F ATLANTA  
G DALLAS  
I KANSAS CITY  
J PHILADELPHIA  
K CINCINNATI  
L SAN FRANCISCO  
M BOSTON  
N CHICAGO

SELECTION ?>

EPA200 ENTER USERID -

WIC1

EPA202 ENTER CURRENT PASSWORD FOR WIC1 -

:XXXXXX

:ICH70001I WIC1 LAST ACCESS AT 14:43:14 ON MONDAY, OCTOBER 23, 1989

IKT00300I LOGON RECONNECT SUCCESSFUL, SESSION ESTABLISHED

<- - - 1

<- - - 2

<- - - 3

<- - - 4

- 1 <- - - The user selected TSO.
- 2 <- - - WIC1 = User ID assigned to the user by NCC.
- 3 <- - - xxxxxx = Password known only to the user.
- 4 <- - - System message indicating that the session has been automatically reconnected.

After entering the TSO "TERM" Command; you may then execute FRDS-II/Interactive. The sample session on the next page shows you how to enter the TSO "TERM" Command and execute FRDS-II/Interactive. For further information and assistance in executing FRDS-II/Interactive refer to Section 1.5 in contacting FRDS-II User Assistance.

### 3.2.2 Description of the Function Menu

The system then displays the Function Menu which allows you to choose the FRDS-II/Interactive Function. The sample session on the page after next shows the Function Menu and how to use it.

### 3.2.3 Beginning FRDS-II/Interactive

Selecting Code '1' of the Function Menu allows the system to begin FRDS-II/Interactive.

For further information and assistance in beginning FRDS-II/Interactive refer to Section 1.5 in contacting FRDS User Assistance.

### 3.2.4 Message Updates

When FRDS-II/Interactive is initiated, it will first display the current version and release number and then give the user the opportunity to display instructions on the use of FRDS-II/Interactive. It will then give the user the opportunity to display FRDS-II/Interactive documentation, which will then automatically be followed by FRDS-II/Interactive broadcast messages.

```
READY
exec frdsonii
```

<- - - 1

Loading FRDSONII ... One moment please !!

===== <- - 2

= Welcome to the Federal Reporting Data System (FRDS-II) =  
= On-Line !!! =

= FRDSONII version 2.1A Effective date: 12/21/89 =

= Date: 01/08/90 Time: 15:00:15 =

= \*\*\*\*\* S P E C I A L N O T I C E \*\*\*\*\* =

= In order to use FRDS-II / Interactive, you MUST =  
= specify SIZE (7500) and PROCEDURE (\$EPATSO) during =  
= your TSO logon. =

= If you didn't specify the correct SIZE or PROCEDURE, =  
= logon again using the values indicated above ... =

=====

Press <RETURN> to continue ...

```
1 <- - - The user executes FRDS-II/Interactive
2 <- - - The Welcome Message indicates that execution of
FRDS/Interactive was successful.
```

```

=====
= Federal Reporting Data System (FRDS-II) On-Line =
= PRODUCTION MENU =
=
= FRDSOII version 2.1A Effective date: 12/21/89 =
=
= Function Description Code =
= ----- =
= End Session and Return to TSO. 0.(zero) =
=
= FRDS-II / Interactive 1 =
= Natural Language Interface 87 =
= DISPLAYs << OFF >> turn on with 88 =
= Change Data Base Prefix 90 =
= Change System (Test/Production) 91 =
=
= End Session and Logoff TSO 99 =
=====
System: PRODUCTION Prefix: FRDS.FIIPROD

--> Enter Function Code ...1 <- - - 1

-Loading FRDS-II/Interactive ... One moment please !!

```

```

1<- - - The user chose FRDS/Interactive

```

The system then asks if you want to display the FRDS-II/Interactive System Messages, which will contain a list of available functions, and other messages of interest to users.

Users with a hardcopy terminal are encouraged to keep copies of all message updates on hand. Since FRDS-II/Interactive is continually evolving, documentation will be updated periodically, but not necessarily when each new capability is first made available. Retaining copies of these messages will allow you to maintain up-to-date information prior to the release of any updated documentation.

The sample session beginning on the next page shows you how to respond with the terminal type in use and choose to see the second stage of message updates.

### 3.2.5 Special Purpose Keys

Certain features of FRDS-II/Interactive make it possible to access help tables or interrupt a prompted query dialogue sequence if necessary. A brief description of applicable special purpose keys follows.

'?' -- Enter to see the help table of permitted responses to the query prompt in effect. These features are available for most query prompts. For further details on help tables refer to Appendix A.

!' -- Enter if you make an error in responding to the prompted query dialogue sequence that formulates data selection criteria statements. This interrupts the prompted query dialogue



Welcome to FRDS/Interactive  
for FRDS-II  
Version: 2.0 Release: 1.0  
09/17/89 0.51.29

Your FRDS-II/Interactive Session initiated at ...  
15:01:07 on Monday, October 23, 1989

--> Would you like instructions on the use of FRDS-II/Interactive?  
(Y)es or (N)o: n

\*\*\*\*\*  
\* FRDS/Interactive Broadcast Messages for FRDS-II follow ... \*  
\*\*\*\*\*

SNCs may be located in FRDS-II by examining the C4050, DBA-DATA, data base  
record for the following ...

C4051 equal to "SNC-yy-qq-MCL" or "SNC-yy-qq-MON" yy = Federal Fiscal Year  
qq = Federal Fiscal Qtr.

C4053 equal to "0100" (Turbidity)  
"1---", "1005", "1010", "1015", "1020", "1025", "1030",  
"1035", "1040", "1045", "1050" (Inorganics)  
"2005", "2010", "2015", "2020", "2105", "2110" (Organics)  
"2950" (TTHM)  
"3000" (Bacti)  
"4---", "4000", "4002", "4010" (Rads)

C4055 equal to "mmddy" Note: 0930yy appears on SNCs converted from  
FRDS 1.5

Where: mm is the calendar month, dd is the calendar day, and yy is the  
calendar year.

The FRDS/Interactive System Messages for FRDS-II were last updated on ...  
Sunday, February 5, 1989 at 8:00 am EST.

\*\*\*\*\*  
\* End of FRDS/Interactive Broadcast Messages for FRDS-II \*  
\*\*\*\*\*

Press <RETURN> to continue ...

```

--> Would you like to display the FRDS-II/Interactive System Messages?
      (Y)es or (N)o: y      <- - - 1

*****
* FRDS/Interactive System Messages for FRDS-II follow ... *
*****

Main Menu Functions which are presently available include:
-----

O      End Session (QUIT and END are synonyms to O)

A      Assisted (i.e., prompted) Locate statement preparation
E      Create Locate file from dataset containing PWS IDs
G      Geographic Help
P      Go to the Post Retrieval Output Options Menu to re-process
        selected/retrieved data
S      Natural Language Interface (S2K Self Contained Facility)
X      Non-prompted specification of Locate statement
Z      Non-prompted specification of Locate statement for use by Batch
        Report Generating Program

--> Continue with the next page of Messages? (Y)es or (N)o: y      <- - - 2

Post Retrieval Output Options which are presently available include:
-----

B      Batch job submission of Standard format (i.e., FRDS) report
        ( Reports 01, 03, 07, 19, 20, 24, 31, 35, & 41 are available )
F      Frequency distribution of values for a data element
L      List in Standard Screen Format
Q      Quicklook Report Generator ( minus its PWS Ranking Feature )

E      End Post Retrieval Processing

*****
* End of FRDS/Interactive System Messages for FRDS-II *
*****

Press <RETURN> to continue ...

```

```

1<- - - The user chooses to display the FRDS/Interactive System Messages
2<- - - The user continues to the next page of messages.

```

sequence and returns you to the prompts for a Main Menu selection. For further details on the Main Menu refer to Section 4.

'\*' -- Enter if you specify all the parameters necessary for your data selection criteria statement and wish to bypass only the questions remaining in the current group of questions. The system then skips to the first question in the next group.

'BREAK' -- Enter to terminate data being written to your terminal.

### 3.2.6 FRDS-II/Interactive Session Cancellation

In the unusual situation in which you want to cancel or purge a disconnected session in progress, refer to Section 1.5 in contacting NCC-IBM User Support.

## 3.3 ERROR AND RECOVERY PROCEDURES

If the connection between your terminal and NCC is broken due to telephone communication problems, power failure, or the like refer to Section 3.1.5.

If you make an error in responding to the prompted query dialogue sequence that formulates data selection criteria statements, refer to Appendix A, "Special Symbols/Keywords/Keys".

For further information and assistance in any situation not otherwise covered, refer to Section 1.5 in contacting FRDS-II User Assistance.

### 3.4 EXIT PROCEDURES

To exit a session at the prompt for a Function Menu selection enter '0'. For further details on the Function Menu, refer to Section 3.2.2.

To exit a FRDS-II/Interactive session at the prompt for a Main Menu selection, enter '0'. For further details on the terminate FRDS-II/Interactive selection from the Main Menu refer to Section 4.2.1.

To end a session at the system prompt 'READY', enter 'LOGOFF'. The sample session on the next page shows you how to end a session at the 'READY' prompt.

When an exit procedure has been completed, turn off the power switch on your terminal.

READY	<- - - 1
logoff	<- - - 2
name :yyyy LOGGED OFF 10/23/89 AT 15:04:04	<- - - 3
0:04:24 CONNECT TIME, 0:08.23 TCB, 0:00.98 SRB	
EXCPS: 5476 DA, 0 MT, 366 TERM, 2 OTHER, 5844 TOTAL	
CHARGES: \$1.55 CONNECT, \$1.60 CPU, \$2.34 EXCPS	
\$4.49 TOTAL CHARGE FOR SESSION	
name LOGGED OFF TSO AT 15:04:19 ON OCTOBER 23, 1989	
*****	

1<- - - System prompt under TSO
2<- - - TSO Command to terminate the TSO session
3<- - - System messages

**SECTION 4**  
**USING THE MAIN MENU**

## SECTION 4 - USING THE MAIN MENU

### 4.1 DESCRIPTION OF THE MAIN MENU

After FRDS-II/INTERACTIVE is initiated, the system asks for a Main Menu selection.

Due to the Main Menu's length, the system prompts you for a Main Menu selection without displaying the Main Menu. However, for demonstration purposes, the sample session on the page after the next page shows you how to see the Main Menu by entering 'menu' at the prompt for a Main Menu selection.

You may choose to exit the FRDS-II/Interactive session at the prompt for a Main Menu selection. For details on the exit procedure at the prompt for a Main Menu selection, refer to Section 3.4.

### 4.2 MAIN MENU SELECTIONS

The Main Menu offers nine types of selections. These are:

- 1) Terminate this FRDS-II/Interactive selection.....(O)
- 2) Assisted preparation of a SYSTEM 2000 Locate statement based upon user provided responses.....(A)
- 3) Re-Display FRDS-II/Interactive Broadcast or System Messages.....(D)
- 4) Retrieve PWSs whose IDs are contained in an external file.....(E)
- 5) Obtain Geographic Information for a specified City or County.....(G)

- 6) Re-process Retrieved data via Post Retrieval Output Options.....(P)
- 7) SYSTEM 2000 Self Contained Facility (i.e., Natural Language).....(S)
- 8) Formulate one or more S2K Locate clauses.....(X)
- 9) Formulate one or more S2K Locate clauses and generate a batch report.....(Z)

The terminate FRDS-II/Interactive selection exits the FRDS-II/Interactive session and returns you to the Function menu. For further details on the terminate FRDS-II/Interactive selection, refer to Section 4.2.1. For further details on the Function Menu, refer to Section 3.2.2.

Re-display FRDS-II/Interactive Re-Displays Broadcast or system messages. For further details on the Re-Display selection, refer to section 4.2.3.

Retrieve PWSs whose IDs are contained in a sequential file, is a selection that allows the user to create a sequential file of PWS ID and then use them to perform retrievals on the FRDS-II Data Base. For further details on this selection, refer to Section 4.2.4.



```

--> Enter Function Code, END, or MENU: menu <- - - 1

Enter a single number or letter which represents your desired response to the
question, then press <RETURN>.

***** FRDS-II/Interactive Menu *****

(0 i.e., zero), (END), or (QUIT) Terminates this FRDS/Interactive Session

***** Specify Retrieval Criteria *****
(A) Assisted (i.e., prompted) Locate statement preparation
(E) Retrieve PWSs whose IDs are contained in an External file
*** Non-prompted specification of what is to be retrieved ***
(i.e., specify S2k Locate commands of your own derivation)
(X) Execute the Locate command & pick Post Retrieval Output Option
(Z) Scan the Locate command for correct syntax & submit batch report

***** Miscellaneous Functions *****
(D) Display FRDS-II/Interactive Broadcast or System Messages
(G) Obtain Geographic Information for a specified City or County
(P) Process Retrieved data via Post Retrieval Output Options
(S) SYSTEM 2000 Self Contained Facility (i.e., Natural Language)

--> Enter Function Code, END, or MENU: <- - - 2

```

```

1<- - - The user entered 'menu' in order to see the Main Menu
         displayed. Using the special purpose key '?' achieves
         the same result.
2<- - - The user can now enter a selection from the Main Menu.

```

The selection to obtain geographic information may be used to display latitude/longitude data for specified cities or counties. For further details, refer to Section 4.2.5.

The post-retrieval processing options selection invokes the Post-retrieval Processing Options Menu to process previously retrieved and reported data for another report format. For further details on the post-retrieval processing options selection, refer to Section 5.

The user-defined query selections retrieve data from the FRDS-II data base. Based upon the selection made, FRDS automatically invokes the Post-retrieval Processing Options Menu after the query has been satisfied. Post-Retrieval Processing enables the user to report the data on-line, or permits the generation of batch reports. For further details on the user-defined query selection, refer to Section 4.2.7. For further details on the S2K self-contained facility selection, refer to Section 4.2.4.

The remainder of Section 4 shows you how to use each Main Menu selection in sample sessions. Central to many of these sample sessions is a hypothetical question that might be asked of the system. The question is as follows:

What information is available in the FRDS-II data base on community, active water supplies in the State of Pennsylvania having bacteriological violations?

#### 4.2.1 Function '0' - To Terminate FRDS-II/Interactive

The Main Menu offers the terminate FRDS-II/Interactive selection. The terminate FRDS-II/Interactive selection allows you to exit a FRDS-II/Interactive session at the prompt for a Main Menu selection.

Selecting Function '0' returns you to the Function Menu. For further details on the Function Menu refer to Section 3.2.2.

The sample session on the next page shows how to use Function '0'.

```

--> Enter Function Code, END, or MENU: 0                                <- - - 1

      Your FRDS-II/Interactive Session terminated at ...
      16:59:44 on Monday, October 23, 1989

      Elapsed time of Session ...
      00:03:17

      End of FRDS/Interactive                                          <- - - 2
      for FRDS-II

Press <RETURN> to continue ...

=====
= Federal Reporting Data System (FRDS-II) On-Line =
= PRODUCTION MENU =
= FRDSOII version 2.0 Effective date: 09/15/89 =
=
= Function Description Code =
= ----- =
= End Session and Return to TSO 0 (zero) =
=
= FRDS-II / Interactive 1 =
= S2K Natural Language 87 =
= DISPLAYs to terminal 88 =
= DISPLAYs to limbo 89 <-- On =
= Change Data Base Prefix 90 =
=
= End Session and Logoff TSO 99 =
=====
Prefix: FRDS.FIIPROD

--> Enter Function Code (98 for Menu) ...0                                <- - - 3

      ***** End of FRDSOII *****                                <- - - 4

      Restoring TSO Environment
      One Moment Please !

      TSO Environment Restored

READY                                                                    <- - - 5
continues on next page

```

continued from previous page

- 1<- - - The user enters 0 to terminate the FRDS-II/Interactive session.
- 2<- - - System message confirming the termination of FRDS-II/Interactive.
- 3<- - - The user selects Function code 0 from the menu to end the session and return to TSO.
- 4<- - - System message confirming the session is ending.
- 5<- - - TSO READY prompt.

#### 4.2.2 Function 'A' - Assisted (Prompted) Query

The "A" Main Menu function of FRDS-II/Interactive refers to the, "Assisted (i.e., prompted) Locate statement preparation function."

This function assists the user in the preparation of a SYSTEM 2000 Locate statement based upon user provided responses to the prompts which are issued when this function is invoked.

Occasionally, a user may find that the "A" function is unable to construct a Locate statement which results in selection of the desired set of data, or takes an inordinate amount of time to satisfy. It should be noted that the objective of the "A" function is to provide a "general" retrieval capability by constructing a Locate statement for the vast majority of retrieval needs, however, it may not be effective for ALL retrievals. Further, this function is not intended to be a replacement for the "X" and "Z" Main Menu functions of FRDS-II/Interactive. Instead, it supplements those functions for users unfamiliar with SYSTEM 2000 Locate statement preparation.

Function 'A' implements a multi-leveled approach with respect to the user dialog provided: a verbose dialog is utilized for novice users, and a more terse dialog is available for intermediate/advanced users. Additionally, novice and intermediate/advanced users are treated differently with respect to the way in which prompts are issued to them and/or the way in which they can respond to any given prompt.

Users restrict what is to be retrieved from the FRDS-II Data Base by the responses they provide in five general areas (referred to as groups). These groups are as follows:

o Group 1 - PWS Inventory Characteristics (8 sub-groups)

-----

	Prompt Prefix
1. Classification and Location Data Elements	(PWS)
2. Other Address Data Elements	(PWS-AD)
3. Source/Entity Data Elements	(PWS-SE)
4. Source Treatment Data Elements	(PWS-SE-TREAT)
5. Geographic Area Served Data Elements	(PWS-GA)
6. Service Area Data Elements	(PWS-SERV)
7. On-site Visit Data Elements	(PWS-VISIT)
8. History Data Elements	(PWS-HIST)

o Group 2 - Violation Characteristics (2 sub-groups)

-----

	Prompt Prefix
1. Violation Specific Data Elements	(VIO)
2. Violation Statistics Data Elements	(VIO/NCP)

o Group 3 - Enforcement Characteristics (2 sub-groups)

-----

Prompt Prefix

1. Enforcement Specific Data Elements (ENF)
2. Enforcement Statistics Data Elements (ENF/NCP)

o Group 4 - Variance/Exemption Characteristics (2 sub-groups)

-----

Prompt Prefix

1. Variance/Exemption/Other Specific Data  
Elements (VE)
2. Variance/Exemption/Other Schedule Data  
Elements (VE-SCHED)

o Group 5 - Data Base Administrator Characteristics

-----

Prompt Prefix

(e.g., Significant Non Compliance information) (DBA)

User responses are edited to ensure proper response length, format, and content with appropriate error messages issued as needed.

At each prompt issued during the dialog, the user may obtain help



by entering either a question mark (?) or the keyword "HELP."  
The help message provides specific information about the prompt, what may be entered, and how it is to be entered.

At any time during the prompting dialog, the user may review the Locate statement that has been constructed thus far by entering the keyword "REVIEW."

Other special user responses are available for all users. These special user responses (and their meaning) are as follows:

Special Response	Meaning
-----	-----
Exclamation Point	All user responses provided to this point are abandoned and the prompting dialog is started over from the beginning.
Pound Sign	All criteria needed to select the desired data have been specified (i.e., no further prompts from any of the remaining groups (or their sub-groups) are to be issued).
The Greater than Symbol	All criteria from the current group (or sub-group) have been specified (i.e., no further prompts from the current group (or sub-group) are to be issued). Prompting resumes with the next logical group or sub-group.

The Caret Symbol      All criteria from the current group (or sub-group) have been specified (i.e., no further prompts from the current group (or sub-group) are to be issued). Prompting resumes with the next logical group with all subsequent sub-groups that belong to the current group bypassed.

<BREAK> or <ATTN>      The informational display in progress is to be terminated immediately.

Cnnnn      For intermediate/advanced users only. Data element number(s) may be entered in response to any group or sub-group prompt to "direct" what prompts from that group or sub-group are to be issued, and in what order.

In addition to that which has already been specified, user responses may include (where appropriate) the following:

- o Multiple data base values per line separated by a slash (e.g., V1 / V2 / V3) for data base value prompts. Multiple values specified in this manner are always 'OR'ed together.
- o Multiple data element numbers per line separated by a comma (e.g., C1, C2, C3) for group and sub-group menu prompts. Multiple data element numbers specified in this manner are always 'AND'ed together. (Intermediate/advanced users ONLY!)

- o The SYSTEM 2000 relational operators as a prefix to data base value responses. These relational operators are as follows:

Operator	Meaning
EQ	Equal (Default ... Does not need to be explicitly entered as a data base value prefix)
NE	Not Equal
GE	Greater than or Equal to
GT	Greater than
LE	Less than or Equal to
LT	Less than
SPANS	Value range ... SPANS V1*V2
EXISTS	The presence of any non-null value
FAILS	The existence of a null value

During construction of the Locate statement, responses to prompts from different groups and sub-groups are 'AND'ed together.

However, user responses to data base value prompts from the same group (or sub-group) may be 'AND'ed or 'OR'ed together at the user's discretion.

As needed, normalization clauses are inserted into the Locate statement constructed (i.e., ( C100 HAS ( ... ) ) when selection criteria from disjoint data base records is specified.

After all user criteria have been specified, the Locate statement is displayed on the user's terminal for verification.

The user may execute the Locate statement constructed interactively and choose the method of displaying the data retrieved, OR the user may have the Locate statement checked for syntax only and submit one or more fixed format reports. In this latter case, the data requested is not retrieved interactively. Instead, the data requested is retrieved in a "Batch" mode prior to the production of the subject report.

Two example on-line sessions are presented on the immediately following pages. The first example session illustrates the "novice" user dialog and the second example session illustrates the advanced or intermediate user dialog.

Note: The dialog utilized for an individual user (i.e., novice or intermediate/advanced) is dependent upon a profile established when the user is registered for FRDS-II/Interactive access. Contact FRDS User Assistance if you prefer the alternate dialog from that which you are presently utilizing.

```

*****
* This example assumes a novice level EPA Region III individual is using *
* ASSIST                                                                    *
*****

--> Enter Function Code, END, or MENU: A                                <- - - 1
--> Do you want instructions on the use of the Assisted (i.e., prompted)
    Locate statement preparation function? (Y)es or (N)o: Y                <- - - 2
    INSTRUCTIONS INTENTIONALLY OMITTED                                <- - - 2A
--> Would you like to print a copy of the Assist documentation?
    (Y)es or (N)o: N                                                    <- - - 3
--> Do you want to restrict your search to only those Public Water Systems
    that have one or more violations? (Y)es or (N)o: N                    <- - - 4
--> Do you want to restrict your search to Public Water Systems that
    are (C)urrent, (H)istorical, or (B)oth: HELP                          <- - - 5
Public Water Systems are either "Current" or "Historical".
Selecting "(B)oth" implies that your query results MAY include Public
Water Systems that are either current or historical PWS(s).
If you intend to restrict your search to a particular PWS Status Code
(a prompt for PWS Status Code appears later in this session), then
your response should be "(B)oth".
--> Do you want to restrict your search to Public Water Systems that
    are (C)urrent, (H)istorical, or (B)oth: B                            <- - - 6
--> Do you want to restrict your search for Violation, Enforcement, and/or
    Variance/Exemption data to one or more specific Federal Fiscal Years?
    (Y)es or (N)o: N                                                    <- - - 7
--> Do you want to select data for ALL States within your EPA Region?
    (Y)es or (N)o: Y                                                    <- - - 8
--> Do you want to restrict your search based upon Public Water System
    Inventory Characteristics? (Y)es or (N)o: Y                          <- - - 9
--> Do you want to restrict your search based upon Public Water System
    Inventory Classification and Location data element values?
    (Y)es or (N)o: Y                                                    <- - - 10
--> Among the Public Water System Inventory Classification and Location
    data elements, must ALL of your selection criteria be met before
    a PWS qualifies for retrieval? (Y)es or (N)o: ?                      <- - - 11

Responses to data base value prompts, within this Sub-Group, will
be 'AND'ed, or 'OR'ed, depending on your response.
A response of 'Y' will generate 'AND' conditions within this Sub-Group
continued on next page

```

```

A response of 'N' will generate 'OR' conditions within this Sub-Group

--> Among the Public Water System Inventory Classification and Location
    data elements, must ALL of your selection criteria be met before
    a PWS qualifies for retrieval? (Y)es or (N)o: Y <- - - 12

If you do not want to restrict your search based upon the value(s) of a given
data element for which a prompt is issued, simply press <RETURN> ...

--> C101 - (PWS) ID(s):
--> C102 - (PWS) Grant Eligibility Status Code(s):
--> C103 - (PWS) System Status Code(s): CAC / NAC / PAC <- - - 13
--> C111 - (PWS) Date(s) System became Operational (YYMM format)
    : REVIEW <- - - 14

LOCATE(15) C100 WH ( C1 EQ 03 ) AND
              ( ( NK C103 EQ CAC
                  NK C103 EQ NAC
                  NK C103 EQ PAC
                  ) ) : OR
                        OR

--> C111 - (PWS) Date(s) System became Operational (YYMM format)
    :
--> C113 - (PWS) Date(s) System became Inactive (YYMM format)
    :
--> C115 - (PWS) Population Category Code(s):
--> C117 - (PWS) Retail Population(s) Served:
--> C119 - (PWS) Primary Source Type Code(s): HELP <- - - 15

PWS Primary Source Type Codes are:
S - Surface P - Purchased Surface
G - Ground H - Purchased Ground

--> C119 - (PWS) Primary Source Type Code(s): S <- - - 16
--> C121 - (PWS) Percentage(s) of water obtained from Non-purchased Surface
    water sources: > <- - - 17

--> Do you want to restrict your search based upon Public Water System
    Inventory Other Address data element values? (Y)es or (N)o: N <- - - 18

--> Do you want to restrict your search based upon Public Water System
    Inventory Source/Entity data element values? (Y)es or (N)o: N <- - - 19

--> Do you want to restrict your search based upon Public Water System
    Inventory Source Treatment data element values? (Y)es or (N)o: Y <- - - 20

--> Among the Public Water System Inventory Source Treatment data
    elements, must ALL of your retrieval criteria be met before a PWS
    qualifies for selection? (Y)es or (N)o: Y <- - - 21

If you do not want to restrict your search based upon the value(s) of a given
data element for which a prompt is issued, simply press <RETURN> ...

--> C483 - (PWS-SE-TREAT) Objective Code(s): ? <- - - 22

Treatment Objective Codes

```

continued on next page

B	Disinfection By-products Control	
C	Corrosion Control	
D	Disinfection	
E	Dechlorination	
F	Iron Removal	
I	Inorganics Removal	
M	Manganese Removal	
N	No Treatment at Source	
O	Organics Removal	
P	Particulate Removal	
R	Radionuclides Removal	
S	Softening (Hardness Removal)	
T	Taste / Odor Control	
X	Not Treated	(Converted FRDS 1.5)
Y	Treated	(Converted FRDS 1.5)
Z	Other	

--> C483 - (PWS-SE-TREAT) Objective Code(s): X <- - - 23  
 --> C485 - (PWS-SE-TREAT) Process Code(s): 000

--> Do you want to restrict your search based upon Public Water System  
 Inventory Geographic Area Served data element values?  
 (Y)es or (N)o: REVIEW <- - - 24

```
LOCATE(15) C100 WH ( C1 EQ 03 ) AND
      ( ( NK C103 EQ CAC OR
        NK C103 EQ IAC OR
        NK C103 EQ IAC ) AND
        ( NK C119 EQ S ) )
AND C100 HAS ( ( NK C483 EQ X ) AND
              ( NK C485 EQ 000 ) ) :
```

--> Do you want to restrict your search based upon Public Water System  
 Inventory Geographic Area Served data element values?  
 (Y)es or (N)o: N <- - - 25

--> Do you want to restrict your search based upon Public Water System  
 Inventory Service Area data element values?  
 (Y)es or (N)o: N <- - - 26

--> Do you want to restrict your search based upon Public Water System  
 Inventory On-site Visit data element values? (Y)es or (N)o: N <- - - 27

--> Do you want to restrict your search based upon Public Water System  
 Inventory History data element values? (Y)es or (N)o: N <- - - 28

--> Do you want to restrict your search based upon Violation Characteristics?  
 (Y)es or (N)o: N <- - - 29

--> Do you want to restrict your search based upon Enforcement  
 Characteristics? (Y)es or (N)o: N <- - - 30

continued on next page





1<- - - Assisted (Prompted) Function is selected off the Main Menu  
 2<- - - User requests instructions on the 'A' function  
 2A<- - - (Instructions intentionally omitted here)  
 3<- - - User does not want documentation printed  
 4<- - - PWS does not have to have any violations to be selected  
 5<- - - User requests more information on Current vs. Historical Inventory  
 6<- - - Both Current and Historical systems will be searched  
 7<- - - ALL Fiscal Years are to be searched  
 8<- - - The entire EPA Region (all states) will be searched  
 9<- - - User requests only systems with specific inventory characteristics  
 10<- - - User wants prompts for both classification and location characteristics  
 11<- - - Help is requested  
 12<- - - User wants ALL of his/her selection criteria to be met  
 13<- - - Only Active, Community systems are sought  
 14<- - - Request is made to review the Locate statement constructed thus far  
 15<- - - Explanation of Primary Source Type Codes is requested  
 16<- - - User then chooses to restrict search to Surface (S) Primary Sources  
 17<- - - ">" symbol results in skipping the remaining classification and  
 location characteristics prompts  
 18<- - - User is not interested in "Other Address" data selection criteria  
 19<- - - User does not wish to restrict search by any Source/Entity criteria  
 20<- - - User requests prompts on PWS Source Treatment characteristics  
 21<- - - Requests that ALL criteria be met  
 22<- - - Explanation of Treatment Objective Codes is requested  
 23<- - - User selects all Untreated Sources as converted from FRDS 1.5  
 24<- - - Another review of the Locate statement created thus far  
 25<- - - User is not interested in searching Geographic Areas  
 26<- - - User is not interested in searching Service Areas  
 27<- - - User is not interested in searching On Site Visit data  
 28<- - - User is not interested in searching Historical Records  
 29<- - - User is not interested in searching Violation data  
 30<- - - User is not interested in searching Enforcement data  
 31<- - - User signifies that he/she is finished identifying his/her selection  
 criteria  
 32<- - - Confirms the completion of the selection criteria  
 33<- - - Created Locate statement is automatically displayed  
 34<- - - User verifies that this is the retrieval he/she wishes to execute  
 35<- - - Requests that an interactive retrieval of output is sought  
 36<- - - Interactive FRDS notifies user that 5,909 PWSs satisfied the selection  
 criteria  
 37<- - - User is automatically given the Post Retrieval Output Options Menu to  
 process the Locate file created by the 'A' Function.

continued on next page

\*\*\*\*\*  
 \* This example assumes an intermediate level EPA Region III individual \*  
 \* is using ASSIST \*  
 \*\*\*\*\*

```
--> Enter Function Code, END, or MENU: A                                <- - - 1

--> Do you want instructions on the use of the Assisted (i.e., prompted)
    Locate statement preparation function? (Y)es or (N)o: N                <- - - 2

--> Do you want to restrict your search to only those Public Water Systems
    that have one or more violations? (Y)es or (N)o: Y                    <- - - 3

--> Do you want to restrict your search to Public Water Systems that
    are (C)urrent, (H)istorical, or (B)oth: C                             <- - - 4

--> Do you want to restrict your search for Violation, Enforcement, and/or
    Variance/Exemption data to one or more specific Federal Fiscal Years?
    (Y)es or (N)o: Y

Acceptable fiscal years are two numeric digits from 80 to the present
--> C1135, C1209, and/or C3023 - Federal Fiscal Year(s)?                <- - - 5
    : 6E 85

--> Do you want to select data for ALL States within your EPA Region?
    (Y)es or (N)o: N

Acceptable States are two character FIPS State codes for States in your Region
--> C3 - For which specific Statn(s) do you want to select data?          <- - - 6
    : PA

--> Do you want to restrict your search based upon Public Water System
    Inventory Characteristics? (Y)es or (N)o: Y

--> For which Public Water System Inventory Sub-group(s) do you want to
    specify selection criteria?
    C100 - Classification and Location Data Elements (PWS),
    C300 - Other Address Data Elements (PWS-AD),
    C400 - Source/Entity Data Elements (PWS-SE),
    C460 - Source Treatment Data Elements (PWS-SE-TREAT),
    C500 - Geographic Area Served Data Elements (PWS-GA),
    C600 - Service Area Data Elements (PWS-SERV),
    C700 - On-site Visit Data Elements (PWS-VISIT),
    C900 - History Data Elements (PWS-HIST),
    All,
    or None: C100                                                         <- - - 7
```

continued on next page

--> C100 - For which PWS Inventory Classification and Location data elements do you want to specify values that restrict your search?

C101 - (PWS) ID,  
 C102 - (PWS) Grant Eligibility Status Code,  
 C103 - (PWS) System Status Code,  
 C105 - (PWS) Plant Type Code,  
 C107 - (PWS) Activity Indicator Code,  
 C111 - (PWS) Date System became Operational,  
 C113 - (PWS) Date System became Inactive,  
 C115 - (PWS) Population Category Code,  
 C117 - (PWS) Retail Population Served,  
 C119 - (PWS) Primary Source Type Code,  
 C121 - (PWS) Pct. of Water obtained from Non-purchased Surface Sources,  
 C123 - (PWS) Pct. of Water obtained from Non-purchased Ground Sources,  
 C125 - (PWS) Pct. of Water obtained from Purchased Surface Sources,  
 C127 - (PWS) Pct. of Water obtained from Purchased Ground Sources,  
 C129 - (PWS) Treatment Class Code,  
 C131 - (PWS) System Name,  
 C137 - (PWS) System City,  
 C139 - (PWS) System State Code,  
 C141 - (PWS) System ZIP Code,  
 C147 - (PWS) Retail Service Connections,  
 C159 - (PWS) Date on which Non-community Season Begins,  
 C161 - (PWS) Date on which Non-community Season Ends,  
 C163 - (PWS) Owner Type Code,  
 C165 - (PWS) Regulating Entity Code,  
 All,  
 or None: C107 , C105 , C115

< - - - 8

--> Among the Public Water System Inventory Classification and Location data elements, must ALL of your selection criteria be met before a PWS qualifies for retrieval? (Y)es or (N)o: Y

--> C107 - (PWS) Activity Indicator Code(s): A  
 --> C105 - (PWS) Plant Type Code(s): HELP

< - - - 9  
 < - - - 10

PWS Plant Type Codes are:

C - Community Water System  
 N - Non-Community Water System  
 P - Non-transient Non-Community Water System

--> C105 - (PWS) Plant Type Code(s): C / P  
 --> C115 - (PWS) Population Category Code(s): REVIEW

< - - - 11  
 < - - - 12

LOCATE(15) C1100 WH ( NK C1 EQ 03 ) AND  
 ( C3 EQ PA )  
 AND ( ( NK C109 NE H ) AND  
 ( NK C107 EQ A ) AND  
 ( NK C105 EQ C OR  
 NK C105 EQ P ) )  
 AND ( NK C1135 GE 05 ) :

--> C115 - (PWS) Population Category Code(s): -

< - - - 13

continued on next page

```

--> Please confirm ... Do you want to override the prompting order
that you previously specified? (Y)es or (N)o: Y
--> Do you want to restrict your search based upon Violation Characteristics?
(Y)es or (N)o: Y <- - 14

--> For which Violation Sub-group(s) do you want to specify selection
criteria?
C1100 - Violation Specific Data Elements (VIO),
C1350 - Violation Profile Data Elements (VIO/NCP),
All,
or None: C1100 <- - 15

--> C1100 - For which Violation Specific data elements do you want to
specify values that restrict your search?
C1101 - (VIO) ID,
C1103 - (VIO) Contaminant Code,
C1105 - (VIO) Type Code,
C1107 - (VIO) Compliance Period Begin Date,
C1109 - (VIO) Compliance Period End Date,
C1111 - (VIO) Compliance Period Duration,
C1115 - (VIO) Date on which State became Aware,
C1121 - (VIO) MCL Analysis Method Code,
C1123 - (VIO) MCL Analysis Result,
C1125 - (VIO) MCL Violated,
C1127 - (VIO) MON Number of Samples Required,
C1129 - (VIO) MON Number of Samples Taken,
C1131 - (VIO) MON Major Vio. Designation Code,
C1137 - (VIO) Data Origin Code,
All,
or None: C1103 , C1105 <- - 16

--> Among the Violation Specific data elements, must ALL of your selection
criteria be met before a PMS qualifies for retrieval?
(Y)es or (N)o: Y

--> C1103 - (VIO) Contaminant Code(s): ? <- - 17

The EPA Regulated Contaminant Codes are:
-----

Physical Contaminants      0100      Turbidity
Inorganic Contaminants    1005      Arsenic
                           1010      Barium
                           1015      Cadmium
                           1020      Chromium
                           1025      Fluoride
                           1030      Lead
                           1035      Mercury
                           1040      Nitrate (as N)
                           1045      Selenium
                           1050      Silver
Organic Contaminants      2005      Endrin
                           2010      Lindane
                           2015      Methoxychlor
                           2020      Toxaphene

```

continued on next page

	2105	2, 4 - D
	2110	2, 4, 5 - TP Silvex
	2950	TTHM
	2969	p - Dichlorobenzene
	2976	Vinyl Chloride
	2977	1, 1 - Dichloroethylene
	2980	1, 2 - Dichloroethane
	2981	1, 1, 1 - Trichloroethane
	2982	Carbon Tetrachloride
	2984	Trichloroethylene
	2990	Benzene
Microbiological Contaminants	3000	Coliform
Radiological Contaminants	4000	Gross Alpha, Including Ra-226 but excluding Radon and Uranium
	4010	Combined Ra-226 & Ra-228
	4020	Radium - 226
	4030	Radium - 228
	4100	Gross Beta Particle Activity

For which Contaminant Group would you like a detailed description?

1--- (Inorganic Contaminants),  
 2--- (Organic Contaminants),  
 4--- (Radiological Contaminants),  
 or None: NONE

--> C1103 - (VIO) Contaminant Code(s): 2950

<-- -- 18

--> C1105 - (VIO) Type Code(s): LT 03 / 03 / 04

<-- -- 19

--> Do you want to restrict your search based upon Enforcement  
 Characteristics? (Y)es or (N)o: REVIEW

<-- -- 20

LOCATE(15) C1100 WH ( NK C1 EQ 03 ) AND

	(	C3	EQ	PA	)	
AND	(	( NK C109	NE	H	)	AND
	(	( NK C107	EQ	A	)	AND
	(	( NK C105	EQ	C	)	OR
		( NK C105	EQ	P	)	)
AND	(	( NK C1135	GE	85	)	AND
	(	( NK C1103	EQ	2950	)	AND
	(	( NK C1105	LT	03	)	OR
		( NK C1105	EQ	03	)	OR
		( NK C1105	EQ	04	)	) :

--> Do you want to restrict your search based upon Enforcement  
 Characteristics? (Y)es or (N)o: Y

--> For which Enforcement Sub-group(s) do you want to specify selection  
 criteria?

C1200 - Enforcement Specific Data Elements (ENF),  
 C1350 - Enforcement Profile Data Elements (ENF/NCP),  
 All,  
 or None: NONE

<-- -- 21

continued on next page

--> Do you want to restrict your search based upon Variance/Exemption Characteristics? (Y)es or (N)o: Y		<- - - 22
--> For which Variance/Exemption Sub-group(s) do you want to specify selection criteria?		
C3000 - Variance/Exemption Specific Data Elements (VE),		
C3100 - Variance/Exemption Schedule Data Elements (VE-SCHED),		
All,		
or None: ALL		<- - - 23
--> C3000 - For which Variance/Exemption Specific data elements do you want to specify values that restrict your search?		
C3001 - (VE) ID,		
C3003 - (VE) Contaminant Code,		
C3005 - (VE) Record Type Code,		
C3007 - (VE) Effective Date,		
C3009 - (VE) Expiration Date,		
C3011 - (VE) Status Code,		
C3013 - (VE) Modified MCL,		
C3015 - (VE) Required Treatment Process Code,		
C3017 - (VE) Alternative Treatment Process Code,		
C3019 - (VE) Reason Code,		
C3025 - (VE) Data Origin Code,		
All,		
or None: NONE		<- - - 24
--> C3100 - For which Variance/Exemption Schedule data elements do you want to specify values that restrict your search?		
C3103 - (VE-SCHED) Scheduled Action Code,		
C3105 - (VE-SCHED) Date Action Scheduled,		
C3107 - (VE-SCHED) Date Scheduled Action Completed,		
All,		
or None: NONE		<- - - 25
--> Do you want to restrict your search based upon Data Base Administrator Data Characteristics? (Y)es or (N)o: N		<- - - 26
LOCATE(15) C1100 WH ( NK C1 EQ 03 ) AND		
	( C3 EQ PA )	
AND	( ( NK C109 NE H ) AND	
	( NK C107 EQ A ) AND	
	( NK C105 EQ C )	OR
	NK C105 EQ P ) )	
AND	( ( NK C1135 GE 85 ) AND	
	( NK C1103 EQ 2950 ) AND	
	( NK C1105 LT 03 )	OR
	NK C1105 EQ 03	OR
	NK C1105 EQ 04 ) ) :	
--> Is the locate statement displayed above correct? (Y)es or (N)o: Y		<- - - 27
--> Do you want to interactively retrieve the data which meets this selection criteria? (Y)es or (N)o: N		<- - - 28

continued on next page

```
*****
Checking your Locate statement ...
Syntax check complete ...
```

```
Successful scan of your Locate statement ...
*****
```

```
***** FRDS-II Phase 1 Reports *****
Reports 1, 3, 7, 19, 20, 24, 31, 35, & 41 are available
```

```
***** FRDS-II Phase 2 Reports *****
Reports 17, 18, 21, 22, 23, 32, & 36 are NOT available
```

```
--> Enter the number of the desired Phase 1 report:
```

<- - 29

continued on next page

1<- - - 'A' (i.e., the assisted) Function is selected off the Main Menu.  
 2<- - - User does not want instructions on the 'A' function displayed.  
 3<- - - Only those systems with violations are to be considered for selection.  
 4<- - - No "Historical" systems are to be included in the search.  
 5<- - - User requests "actions" information from FY 85 through the current FY.  
 6<- - - Only Pennsylvania (PA) data is to be selected.  
 7<- - - User requests prompts for PWS-SYSTEM-SUMMARY (C100) data elements.  
 8<- - - User requests prompts for PWS-ACTIVE (C107), PWS-TYPE (C105) and  
 PWS-POPULATION-CATEGORY (C115) values.  
 9<- - - User specifies that he/she wants only "A" (Active) systems retrieved.  
 10<- - - The "HELP" response here triggers a listing and explanation of valid  
 plant type codes.  
 11<- - - The C/P allows for the selection of "Community" OR "Non-Transient,  
 Non-Community" systems.  
 12<- - - "Review" enables the user to look at the Locate statement that the  
 ASSIST function has constructed so far.  
 13<- - - User signifies that he/she is finished with requests for prompts from  
 the PWS-SYSTEM (C100) group.  
 14<- - - Specific Violation prompts are requested from ASSIST.  
 15<- - - Prompts from the C1100 (Violation) record are requested.  
 16<- - - User selects Contaminant Code (C1103) and Violation Type (C1105)  
 values be prompted in the preparation of this Locate statement.  
 17<- - - The "?" and "HELP" responses are synonymous. This one triggers the  
 display of all currently regulated contaminant codes.  
 18<- - - User is interested only in systems with TTHM (2950) Violations.  
 19<- - - User is interested in systems with MCL (LT 03) or MON (03/04) Violations.  
 20<- - - A display of the Locate statement created thus far is requested.  
 21<- - - Although Enforcement prompts were requested, user opts not to include  
 any enforcement characteristics in his/her locate statement.  
 22<- - - Variance and Exemption (V&E) data prompts are now requested.  
 23<- - - User requests prompts for both V&E and V&E Schedule characteristics.  
 24<- - - User opts to bypass the V&E prompts.  
 25<- - - User opts to bypass the V&E Schedule prompts.  
 26<- - - Final group response triggers the display of the generated Locate  
 statement.  
 27<- - - User verifies the Locate statement created by the Assisted (Prompted)  
 Retrieval Function.  
 28<- - - A batch report is requested in lieu of an interactive retrieval.  
 29<- - - The user is offered the opportunity of generating any of  
 the currently available batch reports, using the locate  
 file constructed by the "A" Function.



#### 4.2.3 Function 'D' - Re-Display of FRDS-II/Interactive Broadcast or System Messages

The Main Menu offers the option of re-displaying all of the FRDS-II/Interactive Broadcast and System Messages.

Selecting Function 'D' will allow the user to review all of the FRDS II/Interactive Broadcast and System Messages.

The sample session on the next page shows how to use Function 'D'.

```

--> Enter Function Code, END, or MENU: d                                <- - - 1
--> Would you like to display (B)roadcast, (S)ystem, or (N)either
    Messages: b                                                            <- - - 2

*****
* FRDS/Interactive Broadcast Messages for FRDS-II follow ... *
*****

SNCs may be located in FRDS-II by examining the C4050, DBA-DATA, data base
record for the following ...

    C4051 equal to "SNC-yy-qq-MCL" or "SNC-yy-qq-MON"  yy = Federal Fiscal Year
                                                    qq = Federal Fiscal Qtr.

    C4053 equal to "0100" (Turbidity)
                "1---", "1005", "1010", "1015", "1020", "1025", "1030",
                "1035", "1040", "1045", "1050" (Inorganics)
                "2005", "2010", "2015", "2020", "2105", "2110" (Organics)
                "2950" (TTHM)
                "3000" (Bacti)

Press <RETURN> to continue ...
    "4---", "4000", "4002", "4010" (Rads)

    C4055 equal to "mmddy"    Note: 0930yy appears on SNCs converted from
                                FRDS 1.5

    Where: mm is the calendar month, dd is the calendar day, and yy is the
           calendar year.

The FRDS/Interactive System Messages for FRDS-II were last updated on ...
Sunday, February 5, 1969 at 8:00 am EST.

*****
* End of FRDS/Interactive Broadcast Messages for FRDS-II *
*****

Press <RETURN> to continue ...

```

```

1<- - - The user enters a "d" to re-display messages.
2<- - - The user re-displays broadcast messages.

```

```

--> Enter Function Code, END, or MENU: d      <- - - 1
--> Would you like to display (B)roadcast, (S)ystem, or (N)either
    Messages: s      <- - - 2

*****
* FRDS/Interactive System Messages for FRDS-II follow ... *
*****

Main Menu Functions which are presently available include:
-----

0    End Session (QUIT and END are synonyms to 0)

A    Assisted (i.e., prompted) Locate statement preparation
E    Create Locate file from dataset containing PWS IDs
G    Geographic Help
P    Go to the Post Retrieval Output Options Menu to re-process
    selected/retrieved data
S    Natural Language Interface (S2K Self Contained Facility)
X    Non-prompted specification of Locate statement
Z    Non-prompted specification of Locate statement for use by Batch
    Report Generating Program

--> Continue with the next page of Messages? (Y)es or (N)o: y

Post Retrieval Output Options which are presently available include:
-----

B    Batch job submission of Standard format (i.e., FRDS) report
    ( Reports 01, 03, 07, 19, 20, 24, 31, 35, & 41 are available )
F    Frequency distribution of values for a data element
L    List in Standard Screen Format
Q    Quicklook Report Generator ( minus its PWS Ranking Feature )

E    End Post Retrieval Processing

*****
* End of FRDS/Interactive System Messages for FRDS-II *
*****

Press <RETURN> to continue ...

```

```

1<- - - The user enters a "d" to re-display messages.
2<- - - The user re-displays system messages.

```

#### 4.2.4 Function 'E' - Retrieve PWSs Whose IDs are in an External File

The Main Menu offers the option of retrieving Public Water Systems whose PWS IDs are contained in an external file.

Selecting Function 'E' allows you to access the PWS ID Retrieval Menu. This function enables the user to retrieve PWSs by using a previously created file containing PWS IDs for selection.

The sample session on the next page shows how to use Function 'E'.

```

--> Enter Function Code, END, or MENU: e --          <- - - 1
Enter the fully qualified data set name of the file containing PMS IDs,
then press <RETURN>
--> Data set name: lvefrds.ninebyte                <- - - 2

Locating PMSs in Data Base - One moment please ...

Successful Locate ...

PMS ID file name processed: LVEFRDS.NINEBYTE

PMS IDs in file processed:      15
PMSs located in Data Base:      15                <- - - 3

Press <RETURN> to continue ...

                        FRDS-II/Interactive
                        Post Retrieval Output Options Menu
=====
(B) Batch Job Submission      (L) List in Standard Screen Format
(F) Frequency Distribution    (Q) Quicklook Report Generator

                        (E) End Post Retrieval

--> Enter the Code which corresponds to the desired Post Retrieval
Output Option:                                     <- - - 4

```

```

1<- - - The user selected Function "E" to retrieve PMSs whos IDs are in an
external file.
2<- - - The user keys in the fully qualified data set name.
3<- - - The system responds with the number of PMSs successfully located.
4<- - - The user may select any Post-processing option.

```

#### 4.2.5 Function 'G' - Obtain Geographic Information for a Specified City or County.

The Main Menu offers the option of obtaining geographic information for a specified City or County.

Selecting Function 'G' allows access to the Geographic Help Function Menu. The user may then enter the City or County, along with the State abbreviation, for which geographic information is desired.

The sample session on the next page shows how to use Function 'G'.

```

--> Enter Function Code, END, or MENU: g                <- - - 1
You have invoked the Geographic Help function
You will be asked to enter the name of a City or County
and the State abbreviation of the area(s) for which you
desire geographic information.
--> Do you want Geographic information? (Y)es or (N)o: y    <- - - 2
--> Enter City Name or press <RETURN> to enter a County: carlisle <- - - 3
--> State abbreviation: pa                                <- - - 4

      City          State County MSA Hydro-ID Lat. Long.
CARLISLE           PA      041   3240 02050305 04012 07711    <- - - 5

--> Would you like more Geographic information? (Y)es or (N)o: n <- - - 6

```

```

1<- - - Function "6" is selected to obtain geographic data.
2<- - - The user has the option of continuing the geographic help function by
entering a "y", or returning to the function prompt by entering
an "n".
3<- - - The city for which geographic help is desired, is entered.
4<- - - The State for which geographic help is desired, is entered.
5<- - - The system displays geographic data for the city and State requested.
6<- - - The user has the option of continuing the Geographic Help function
or returning to the function prompt.

```

#### 4.2.6 Function 'P' - Post-retrieval Processing Options

The Main Menu offers the post-retrieval processing options selection. The post-retrieval processing options selection allows you to access the Post-retrieval Processing Options Menu using previously selected data without regenerating a query or reselecting the data.

Selecting Function 'P' allows you to access the Post-retrieval Processing Options Menu using data already selected by a previous data selection criteria statement in Function 'A', 'E', 'X', or 'Z' of the Main Menu.

For further details on the Post-retrieval Processing Options Menu refer to Section 5.



#### 4.2.7 Function 'S' - Enter the System 2000 Self-contained Facility (NATURAL LANGUAGE)

The Main Menu offers the S2K self-contained facility selection allowing you to formulate queries and generate variable format ad hoc reports of selected data from the FRDS-II data base. You interactively create a set of S2K commands to select the desired data and format a report. These commands may come either from a command file or your terminal. They may either be executed in an interactive session or be accumulated in the data area and submitted as off-line batch job(s).

To generate reports with S2K commands, you respond to system prompts in allocating data set(s) for the report(s). You can submit off-line batch job(s) to print any combination of the report data groups.

The sample session on the next page shows how to use Function 'S'.

```

--> Enter Function Code, END, or MENU:  s          <- - - 1
--> Do you have any Command files that you wish to use?  n          <- - - 2
--> Do you have any Report files that you wish to create?  y          <- - - 3
After these REPORT FILES have been printed,
Do you want to keep them on the computer? Enter Y/N:  n          <- - - 4
--> Do you expect this report to be (S)short, (M)medium, or (L)long?  s          <- - - 5
--> Do you have any more? Enter Y/N:  n          <- - - 6

The following Report files are allocated to this session:
Reference name      Data set name
REPORT01           newyyyy.M102389.T175747.REPORT01          <- - - 7

* When you wish to create an off-line Report, specify the following
  command in response to the System 2000 prompt "-----":

REPORT FILE IS REPORTxx:

Where "xx" is the Reference Name number of the Report file
that you wish to create. When you have finished creating a
specific report file, enter the following command:

REPORT FILE IS OUTPUT:

--> Do you want to produce a Batch Job? Enter Y/N/!:  n
--> Do you want an INTERACTIVE NATURAL LANGUAGE SESSION? ENTER Y/N:  y          <- - - 8
10/23/89 17:59:17 BEGIN SYSTEM 2000 - RELEASE 11.5
COPYRIGHT (C) 1985 SAS INSTITUTE INC., CARY, N.C. 27511, U.S.A. -
---
USER, EPA:
---
ECHO OFF:
-556- OPENED.....FRDSII                2      42  10/14/1989 04:01:08
---
COMMAND FILE IS SYSIN:
---
limit 0,10/truncate:
LIMIT 0,10/TRUNCATE:
---

```

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```
list c3, c101, ob c101 wh (c3 eq pa) and (c1103 eq 2950) and (nk c103 eq cac):  
LIST C3, C101, OB C101 WH (C3 EQ PA) AND (C1103 EQ 2950) AND (NK C103 EQ CAC):  
-731- S2KPAD00 OUT OF SPACE, WILL EXTEND -  
-735- S2KPAD00 EXTENSION SUCCESSFUL -  
-340-      99 TOTAL SELECTED RECORD(S) -  
-343-      89 RECORD(S) CANCELLED OR TRUNCATED -  
-342-      10 SELECTED RECORD(S) -
```

```
* ST-STATE-CODE   PWS-ID
```

```
***
```

```
* PA              PA1090022  
* PA              PA1090024  
* PA              PA1090026  
* PA              PA1090037  
* PA              PA1090043  
* PA              PA1090063  
* PA              PA1090069  
* PA              PA1090078  
* PA              PA1090079  
* PA              PA1090082
```

```
---
```

```
report file is report01:  
REPORT FILE IS REPORT01:
```

continues on next page

continued from previous page

```
report file is output:
REPORT FILE IS OUTPUT:
---
exit:
EXIT:
18:25:21 10/23/89 END SYSTEM 2000 - RELEASE 11.5
COPYRIGHT (C) 1985 SAS INSTITUTE INC., CARY, N.C. 27511, U.S.A. -

--> Do you wish to print any REPORT Files? Enter Y/N: y          <- - - 9
--> Enter the last 2 digits of the REPORT File that you wish to print: 01 <- - - 10

--> Please enter your 4-digit BOX #: dddd                          <- - - 11
--> Please enter your 9-digit ACCOUNT #: yyyzzzzz
--> Please enter your 3-digit REMOTE Printer # or MODE: nnn
--> Please enter a 1-digit PRIORITY code: 2
--> Please enter number of COPIES to be made of this report: 1
Do you expect this report to be Short, Medium, Long, or X-long?
--> Enter S, M, L, or X, OR ? (Default is S): s

Check the following information:

BOX                dddd
ACCOUNT            yyyzzzzz
REMOTE             114
PRIORITY           2
COPIES             1
TIME              S
IS THIS INFORMATION CORRECT? y          <- - - 12
JOB 3859 SUBMITTED                      <- - - 13
```

continued from previous page

- 1<- - - The user selects the "S" Function for S2K Natural Language.
- 2<- - - The user has no existing command file.
- 3<- - - The user wishes to create a new report file.
- 4<- - - The user does not wish to save the report file.
- 5<- - - Based upon selection criteria, the user expects the report to be small.
- 6<- - - The user does not wish to allocate additional report files.
- 7<- - - System message to show the data set name of the allocated report file.
- 8<- - - The user selects a Natural Language session.
- 9<- - - The user wishes to print the report file.
- 10<- - - The user enters the number of the report file to be printed.
- 11<- - - The user enters requested destination information.
- 12<- - - The user is given an opportunity to change or correct the destination information.
- 13<- - - System message indicating the job number submitted. Users should note the job number for future reference.

#### 4.2.8 User-defined Query

User-defined query allows you to enter your own formulated data selection criteria statement. The system then offers you an opportunity to submit the statement as a query to the data base or formulate and enter a new statement. When you submit a query, the system checks the formulated data selection criteria statement for proper syntax before performing data retrieval.

It is important to note that the user can access any data in FRDS-II that has been reported to U.S. EPA, for the prior 8-year period. If users wish to restrict a search on violations or PWS's with violations to a specific fiscal year, new data elements have been provided in FRDS-II to accomplish this.

It is also important to note that data element numbers used in FRDS-II may refer to a different set of data than in FRDS 1.5.

There are two user-defined query retrieval selections. A discussion of each selection follows.

##### 4.2.8.1 Function 'X' - Formulate Non-prompted Retrieval

###### Selection Clauses

The Main Menu offers a non-prompted user-defined S2K locate statement facility allowing you to perform up to 11 unrelated searches. The results of each search are stored in locate data storage data areas consisting of up to 11 separate data files numbered from 0 through 10. These files are retained until the

end of the FRDS-II/Interactive session, unless overwritten by the execution of another locate statement. After you have selected PWSs using Function 'X', you can use one of the created locate data files for further output processing. Not specifying a locate file has the same effect as specifying locate file 0.

The sample session on the next page shows how to use Function 'X'.

#### 4.2.8.2 Function 'Z' - Formulate Non-prompted Retrieval Selection Clauses

The Main Menu offers a non-prompted user-defined facility to generate standard batch jobs routed to a remote high-speed printer. It produces one or more standard reports from your data selection criteria.

This differs from Function 'X' in that Function 'Z' does not retrieve data from the data base while on-line, but instead, at the time of batch job execution. It does not scan the data base immediately, but simply checks the formulated data selection criteria statement for proper syntax before asking if the query is to be submitted for batch processing.

Function 'Z' is a non-prompted S2K locate statement facility allowing you to perform up to 11 unrelated searches. The results of each search are stored in locate data storage data areas, consisting of up to 11 separate data files numbered from 0 through 10. These files are retained until the end of the

```

--> Enter Function Code, END, or MENU: x                                <- - - 1
Enter your S2K Locate command on the following lines:
NOTE: You may enter multiple Locates using Locate Files 0 to 10.
      Each Locate command can be from 1 to 20 lines of not more
      than 70 characters per line.
      Your completed command MUST end with a COLON.
      To re-enter a Locate command from the beginning, press
      the <BREAK> or <ATTN> key.
      When finished, enter the keyword EXIT and press <RETURN>
--> locate c100 mh (c3 eq pa) and (c1103 eq 2950) and (nk c103 eq cac): <- - - 2
Is this the Locate statement that you want to process?
LOCATE C100 MH (C3 EQ PA) AND (C1103 EQ 2950) AND (NK C103 EQ CAC):
--> (Y)es or (N)o: y                                                    <- - - 3
Searching ... Please do not interrupt
Search completion pending ...

*****
Successful Locate ...
      99 PMS(s) found matching your criteria                                <- - - 4
*****
Enter your S2K Locate command on the following lines:
--> exit                                                                <- - - 5

Record selection complete ...
Do you wish to use one of your previously established LOCATE's
--> Enter (Y)es, (N)o, ?, or Locate File #: 0

                          FRDS-II/Interactive
                          Post Retrieval Output Options Menu
=====

      (B) Batch Job Submission      (L) List in Standard Screen Format
      (F) Frequency Distribution    (Q) Quicklook Report Generator

                          (E) End Post Retrieval

--> Enter the Code which corresponds to the desired Post Retrieval
Output Option:                                                         <- - - 6

```

- 1<- - - The user has selected Function "x" to formulate a non-prompted locate command. A colon must follow the locate statement to notify FRDS/Interactive that query formulation is complete.
- 2<- - - The user formulates a locate command.
- 3<- - - The user enters a "y" to indicate that the locate command is correct.
- 4<- - - The system verifies that the data is available and gives totals.
- 5<- - - Additional locate statements may be formulated. Entering "exit" terminates the query.
- 6<- - - The user may choose a Post-retrieval processing option.



FRDS-II/Interactive session, unless overwritten by the execution of another locate statement. After you have selected PWSs using Function 'Z', you can use one of the created locate data files for further output processing.

The sample session on the next page shows how to use Function 'Z'.

```

--> Enter Function Code, END, or MENU: z          <- - - 1
Enter your S2K Locate command on the following lines:
NOTE: You may enter multiple Locates using Locate Files 0 to 10.
      Each Locate command can be from 1 to 20 lines of not more
            than 70 characters per line.
      Your completed command MUST end with a COLON.
      To re-enter a Locate command from the beginning, press
            the <BREAK> or <ATTN> key.
      When finished, enter the keyword EXIT and press <RETURN>
--> locate c100 wh (c3 eq pa) and (c1103 eq 2950) and (nk c103 eq cac): <- - - 2
Is this the Locate statement that you want to process?
LOCATE C100 WH (C3 EQ PA) AND (C1103 EQ 2950) AND (NK C103 EQ CAC):
--> (Y)es or (N)o: y          <- - - 3
Checking your Locate statement ...
Syntax check complete ...

*****
Successful scan of your Locate statement ...
*****
Enter your S2K Locate command on the following lines:
--> exit          <- - - 4

Record selection complete ...
Do you wish to use one of your previously established LOCATE's
--> Enter (Y)es, (N)o, ?, or Locate File #: 0

***** FRDS-II Phase 1 Reports *****
Reports 1, 3, 7, 19, 20, 24, 31, 35, & 41 are available

***** FRDS-II Phase 2 Reports *****
Reports 17, 18, 21, 22, 23, 32, & 36 are NOT available

--> Enter the number of the desired FRDS report:          <- - - 5

```

```

1<- - - The user selects Function "z" to formulate a non-prompted locate
        command.
2<- - - The user formulates a locate command.
3<- - - The locate command as formulated is acceptable and the user wishes to
        continue.
4<- - - Additional locate commands may be formulated. Entering "exit"
        terminates the query.
5<- - - The user may choose a standard batch report.

```



## **SECTION 5**

### **USING THE POST-RETRIEVAL PROCESSING OPTIONS MENU**

## SECTION 5 - USING THE POST-RETRIEVAL PROCESSING OPTIONS MENU

### 5.1 DESCRIPTION OF THE POST-RETRIEVAL PROCESSING OPTIONS MENU

After data has been selected and successfully retrieved the system displays the Post-retrieval Processing Options Menu. Selections determine ways to process and report data.

The sample session on the next page shows how to use the Post-retrieval Processing Options Menu.

FRDS-II/Interactive  
Post Retrieval Output Options Menu

=====

- |                            |                                    |
|----------------------------|------------------------------------|
| (B) Batch Job Submission   | (L) List in Standard Screen Format |
| (F) Frequency Distribution | (Q) Quicklook Report Generator     |
| (E) End Post Retrieval     |                                    |

--> Enter the Code which corresponds to the desired Post Retrieval  
Output Option:

<- - - 1

1<- - - The user enters a selection from the Post-Retrieval Processing Options  
Menu here.

## 5.2 POST-RETRIEVAL PROCESSING OPTIONS MENU SELECTIONS AND REPORT EXAMPLES

The chart on the next page summarizes the unique features of each Post-retrieval Processing Options Menu selection.

A discussion of each Post-retrieval Processing Options Menu selection follows. A sample session and a report example are featured for each selection.

<u>Selection</u>	<u>Title</u>	<u>Features</u>
Option 'A'	Aggregate Violations	Not Available
Option 'B'	Batch Job Submission	Provides information relating to PWS inventory, enforcement actions, violations, and variances and exemptions in detailed and summary listing formats
Option 'C'	Create a File for SAS	Not Available
Option 'F'	Frequency Distribution	Provides a frequency distribution table of unique code value occurrences for a specified data element based upon the currently selected PWS(s)
Option 'G'	Graphs or Maps	Not Available
Option 'I'	Invoke IDRS/CERCLIS	Not Available
Option 'K'	Kounts or Sums of PWS Elements	Not Available

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<u>Selection</u>	<u>Title</u>	<u>Features</u>
Option 'L'	List in Standard Screen Format	Provides information relating to inventory, source, violations, variance and exemptions, and enforcements, in detailed listing format.
Option 'M'	Map of PWS by State, Region, or U.S.	Not Available
Option 'Q'	Quicklook Report Generator	Permits the user to design and print a report according to his/her own specifications
Option 'T'	Totals of PWS Information	Not Available
Option 'E'	End Post Retrieval	Terminates Post retrieval processing and returns user to Main menu function selection.

5.2.1 Option 'A' - Aggregate Violations - Aggregate Violations  
Report (Not Available)

### 5.2.2 Option 'B' - Batch Job Submission

Option 'B' of the Post-retrieval Processing Options Menu generates various standard batch reports. These reports are printed on an off-line, high-speed printer.

The standard batch reports are preformatted using preformulated calculations to report information from the retrieval. The user must specify certain job parameters including printer distribution information (room number or box number), account number, routing site, job priority, number of report copies to be printed, and job execution time/size. The user may also select a predefined sort order for the reports, if desired.

Each standard batch report begins with data selection criteria information, the sort order of PWSs if applicable, and the total number of PWSs reported on. FRDS01, FRDS03, FRDS24, and FRDS35 are detailed reports. FRDS07, FRDS19, FRDS20, FRDS31, FRDS41B, and FRDS41D are summary reports.

Detailed standard batch reports and summary standard batch reports are depicted in the chart beginning on the next page. The sample session that follows shows how to use Option 'B'. Report examples of the standard batch reports available through Option 'B' are provided in Sections 5.2.2.1 - 5.2.2.17.

Num- ber	Title	Detailed PWS Inventory	Summary PWS Inventory and Action
01	Public Water System Comprehensive	X	
02	(For future use)		
03	Public Water System Service Area and Source Area	X	
04	(For future use)		
05	(For future use)		
06	(For future use)		
07	Facilities and Population Served by Primary Water Supply Source		X
08	(For future use)		
09	(For future use)		
10	(For future use)		
11	(For future use)		
12	(For future use)		
13	(For future use)		
14	(For future use)		
15	(For future use)		
16	(For future use)		
17	Enforcement Actions Summary by Population (N/A)		X
18	Enforcement Actions Summary by Type and Primary Water Supply Source (N/A)		X
19	Violation Summary by Population		X

Num- Title	Detailed	Summary PWS
ber	PWS	Inventory
	Inventory	and Action
20	Violation Summary by Primary	
	Water Supply Source	X
21	Variance and Exemption Summary	
	by Population (N/A)	X
22	Variance and Exemption Summary	
	by Primary Water Supply Source (N/A)	X
23	(For future use)	
24	Public Water Supply System	
	Summary and Violation Data	X
25	(For future use)	
26	(For future use)	
27	(For future use)	
28	(For future use)	
29	(For future use)	
30	(For future use)	
31	PWS's Months in Violation	X
32	(For future use)	
33	(For future use)	
34	(For future use)	
35	Annual Data Evaluation	X
36	Informal Enforcement Actions (N/A)	X
37	Multiple Year Violations (N/A)	X
38	(N/A)	X
41	Significant Non-Compliers	X

(N/A) = Not Available

FRDS-II/Interactive Post Retrieval Output Options Menu	
=====	
(B) Batch Job Submission	(L) List in Standard Screen Format
(F) Frequency Distribution	(Q) Quicklook Report Generator
(E) End Post Retrieval	
--> Enter the Code which corresponds to the desired Post Retrieval Output Option: b	< - - - 1
***** FRDS-II Phase 1 Reports *****	
Reports 1, 3, 7, 19, 20, 24, 31, 35, & 41 are available	
***** FRDS-II Phase 2 Reports *****	
Reports 17, 18, 21, 22, 23, 32, & 36 are NOT available	
--> Enter the number of the desired FRDS report: 3	< - - - 2
--> Do you wish to add an additional identifying title line to your FRDS03 report? (Y)es or (N)o: n	< - - - 3
--> Do you want to sort the report data? (Y)es or (N)o: y	< - - - 4
--> Sort on EPA region? (Y)es or (N)o: n	
--> Sort on State? (Y)es or (N)o: n	
Select one of the following minor sort sequences:	
0 = None	
1 = PWS ID	
2 = PWS Type, PWS ID	
3 = Retail Population Served (descending sequence), PWS ID	
4 = Primary Source, PWS ID	
5 = System City Name, PWS ID	
6 = System Name, PWS ID	
7 = System ZIP Code, PWS ID	
--> Minor sort sequence number: 1	< - - - 5
Your current Job parameters are:	
FIMAS ID: xxxxxx	
Destination: RMTnnn	
Bin/Box: dddd	
Estimated Time: Short	
Priority: 2	
Printer Type: Destination	
Copies of Report: 01	
--> Are these parameters correct? (Y)es or (N)o? y	< - - - 6
Job 7414 Submitted ...	

continues on next page

continued from previous page

- 1< - - - Option "b" from the Post-Retrieval Processing Menu is chosen.
- 2< - - - Standard report 3 is chosen. The report numbers may be entered without leading zeros.
- 3< - - - An "n" is entered for no additional title lines. A "y" would give the user the opportunity to enter an additional title.
- 4< - - - The user requests that a sort be performed.
- 5< - - - A sort on PWS ID is chosen.
- 6< - - - The user verifies that the report routing information is correct.

#### 5.2.2.1 FRDS01 - Public Water System Comprehensive Report

FRDS01 is a summary report of the comprehensive PWS inventory.

FRDS01 begins with information on the report selection criteria, or the details of the logical criteria, used in selecting the PWSs in the report and the total number of PWSs reported on.

In addition to the report selection criteria information, FRDS01 contains a body composed of a varying number of pages containing the specified information on the selected PWSs.

A report example follows on the next page.





5.2.2.2 FRDS03 - Public Water System Service Area and  
Source Area Report

FRDS03 is a detailed report of PWS plant location, service area, and sources data.

FRDS03 begins with information on the report selection criteria, or the details of the logical criteria, used in selecting the PWSs in the report and the total number of PWSs reported on.

In addition to the report selection criteria information, FRDS03 contains a body composed of a varying number of pages containing the specified information on the selected PWSs. FRDS03 also contains a summary page as the last page of the report.

A report example follows on the next page.

FEDERAL REPORTING DATA SYSTEM - FROS-II  
PUBLIC WATER SYSTEM - SERVICE AREA AND STATE SUPPLIED SOURCE DATA

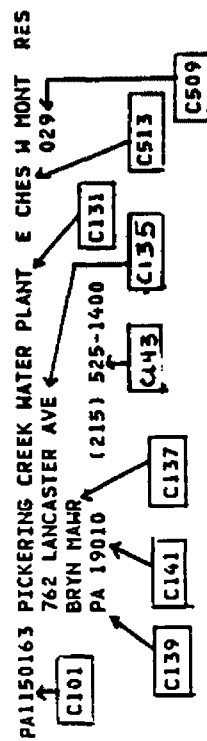
11/06/89  
FRDS03

PAGE 2

SORTED BY PHS ID

PHS ID	SYSTEM NAME/ADDRESS/TELEPHONE	CITY/COUNTY	MAJOR SUB CAT CATEGORY	RES	O T M Y N P R E	POPULATION SERVED	SOURCE NAME	E	OBJECTIVE	PROCESS	TREATMENTS
PA1090026	LOWER BUCKS JOINT MUN WATER OFF RADCLIFFE AVE TULLYTOWN (LEVITTOWN) PA 19055 (215) 945-7400	LEVITTOWN 017			4 C	92,000	DELAWARE RIVER	S	Y	Y	082 083 084 085 088 091 092 091 092

7 WELLS 50 FT D 6



5.2.2.3 - FRDS07 - Facilities and Population Served by  
Primary Water Supply Source

FRDS07 is a detailed report of facilities and populations served by PWS sources.

FRDS07 begins with information on the report selection criteria, or the details of the logical criteria, used in selecting the PWSs in the report and the total number of PWSs reported on.

In addition to the report selection criteria information, FRDS07 contains a body composed of a varying number of pages containing the specified information on the selected PWSs. FRDS07 also contains a summary page as the last page of the report.

A report example follows on the next page.

11/06/89  
FR0507

FEDERAL REPORTING DATA SYSTEM - FRDS-II  
FACILITIES AND POPULATION SERVED BY PRIMARY WATER SUPPLY SOURCE

PAGE 2

EPA REGION III  
STATE: PENNSYLVANIA  
PRIMACY: Y  
C01  
C03  
C05

	SURFACE (000)		GROUND (000)		PURCHASED (000)		TOTAL (000)	
	FACILITIES POPULATION	FACILITIES POPULATION	FACILITIES POPULATION	FACILITIES POPULATION	FACILITIES POPULATION	FACILITIES POPULATION	FACILITIES POPULATION	FACILITIES POPULATION
100 & UNDER								
NUMBER	0	0	0	0	0	0	0	0
PERCENTAGE	.0	.0	.0	.0	.0	.0	.0	.0
101-500								
NUMBER	0	0	0	0	0	0	0	0
PERCENTAGE	.0	.0	.0	.0	.0	.0	.0	.0
501-1,000								
NUMBER	0	0	0	0	0	0	0	0
PERCENTAGE	.0	.0	.0	.0	.0	.0	.0	.0
1,001-2,500								
NUMBER	0	0	0	0	0	0	0	0
PERCENTAGE	.0	.0	.0	.0	.0	.0	.0	.0
2,501-3,300								
NUMBER	0	0	0	0	0	0	0	0
PERCENTAGE	.0	.0	.0	.0	.0	.0	.0	.0
3,301-5,000								
NUMBER	0	0	0	0	0	0	0	0
PERCENTAGE	.0	.0	.0	.0	.0	.0	.0	.0
5,001-10,000								
NUMBER	0	0	0	0	0	0	0	0
PERCENTAGE	.0	.0	.0	.0	.0	.0	.0	.0
10,001-50,000								
NUMBER	0	0	0	0	0	0	0	0
PERCENTAGE	.0	.0	.0	.0	.0	.0	.0	.0
50,001-75,000								
NUMBER	11	665	1	60	0	0	12	725
PERCENTAGE	34.4	11.9	3.1	1.1	.0	.0	37.5	12.9
75,001-100,000								
NUMBER	4	371	0	0	0	0	4	371
PERCENTAGE	12.5	6.6	.0	.0	.0	.0	12.5	6.6
OVER 100,000								
NUMBER	16	4,504	0	0	0	0	16	4,504
PERCENTAGE	50.0	80.4	.0	.0	.0	.0	50.0	80.4
TOTALS								
NUMBER	31	5,539	1	60	0	0	32	5,599
PERCENTAGE	96.9	98.9	3.1	1.1	.0	.0	100.0	100.0

SUM OF C117  
(PMS-RETAIL-POP-SERVED)

COUNT OF C101 (PMS IDS)

#### 5.2.2.4 FRDS17 - Enforcement Actions Summary by Population

(Not Available)

5.2.2.5 FRDS18 - Enforcement Actions Summary by Type and  
Primary Water Supply Source (Not  
Available)

#### 5.2.2.6 FRDS19 - Violation Summary by Population

FRDS19 is a summary report separately calculating the number of violations by population category, and the number of systems in violation by population category, for FRDS19A and FRDS19B, respectively.

FRDS19 begins with information on the report selection criteria, or the details of the logical criteria used in selecting the PWSs in the report and the total number of PWSs reported on.

In addition to the report selection criteria information, FRDS19 contains a body composed of a varying number of pages containing the specified information on the selected PWSs.

Two 19A and 19B reports follow, beginning on the next page. The first example shows summaries for all years, for the State of Pennsylvania, while the second example shows summaries for FY 1987 only.



FEDERAL REPORTING DATA SYSTEM - FRDS-II  
VIOLATION SUMMARY BY POPULATION

PAGE 2

11/06/89

FRDS19A

EPA REGION III

STATE: PENNSYLVANIA

C01

PRINACY: Y

C05

C03

NUMBER OF VIOLATIONS BY POPULATION CATEGORY									
100 &	101-	501-	1,001-	2,501-	3,301-	5,001-	10,001-	50,001-	OVER
UNDER	500	1,000	2,500	3,300	5,000	10,000	50,000	100,000	100,000
									TOTAL

VIOLATION TYPE/CONTAMINANT

SINGLE SAMPLE MCL

Turbidity  
Fluoride  
Silver  
Endrin  
Lindane  
Toxaphene  
2,4,5-TP Silvex  
Coliform

SUB TOTAL

AVERAGE MCL

Turbidity  
Thm  
Coliform

SUB TOTAL

REGULAR SAMPLING

Turbidity  
Arsenic  
Barium  
Cadmium  
Chromium  
Fluoride  
Lead  
Mercury  
Nitrate (As N)  
Selenium  
Silver  
Endrin  
Lindane  
Methoxychlor  
Toxaphene  
2,4-D

COUNT OF NUMBER

FEDERAL REPORTING DATA SYSTEM - FROS-II  
SYSTEMS IN VIOLATION-SUMMARY BY POPULATION

11/06/89

FROS198

EPA REGION III

STATE: PENNSYLVANIA

C01

C03

PRIMACY: Y

C05

PAGE 2

VIOLATION TYPE/CONTAMINANT	-NUMBER OF SYSTEMS IN VIOLATION BY POPULATION CATEGORY-									
	100 & UNDER	101- 500	501- 1,000	1,001- 2,500	2,501- 3,300	3,301- 5,000	5,001- 10,000	10,001- 50,000	50,001- 100,000	OVER 100,000
					</					

SINGLE SAMPLE MCL										
Turbidity									1	5
Fluoride								4		1
Silver								1		1
Endrin									1	1
Lindane									1	1
Toxaphene									1	1
2,4,5-TP Silvex								3	1	4
Coliform										
SUB TOTAL								7	1	9
AVERAGE MCL										
Turbidity								5		5
Thm								2	1	3
Coliform								2	2	4
SUB TOTAL								8	3	11

REGULAR SAMPLING																			
Turbidity		2	2	2	2	2	1	2	2	1	2	2	5	1	1	1	1	1	1
Arsenic		2	2	2	2	2	1	2	2	1	2	2	5	1	1	1	1	1	1
Barium		2	2	2	2	2	1	2	2	1	2	2	5	1	1	1	1	1	1
Cadmium		2	2	2	2	2	1	2	2	1	2	2	5	1	1	1	1	1	1
Chromium		2	2	2	2	2	1	2	2	1	2	2	5	1	1	1	1	1	1
Fluoride		2	2	2	2	2	1	2	2	1	2	2	5	1	1	1	1	1	1
Lead		2	2	2	2	2	1	2	2	1	2	2	5	1	1	1	1	1	1
Mercury		2	2	2	2	2	1	2	2	1	2	2	5	1	1	1	1	1	1
Nitrate (As N)		2	2	2	2	2	1	2	2	1	2	2	5	1	1	1	1	1	1
Selenium		2	2	2	2	2	1	2	2	1	2	2	5	1	1	1	1	1	1
Silver		2	2	2	2	2	1	2	2	1	2	2	5	1	1	1	1	1	1
Endrin		2	2	2	2	2	1	2	2	1	2	2	5	1	1	1	1	1	1
Lindane		2	2	2	2	2	1	2	2	1	2	2	5	1	1	1	1	1	1
Methoxychlor		2	2	2	2	2	1	2	2	1	2	2	5	1	1	1	1	1	1
Toxaphene		2	2	2	2	2	1	2	2	1	2	2	5	1	1	1	1	1	1
2,4-D		2	2	2	2	2	1	2	2	1	2	2	5	1	1	1	1	1	1

COUNT OF  
SYSTEMS  
WITH THIS  
VIOLATION

LOCATE STATEMENT:  
LOCATE (0) C100 WH C3 EQ PA AND NK C103 EQ CAC AND C117 GT 00050000:

FEDERAL REPORTING DATA SYSTEM - FRDS-II  
VIOLATION SUMMARY BY POPULATION

11/08/89

FRDS19A

EPA REGION III

STATE: PENNSYLVANIA

C01

PRIMACY: Y

C05

PAGE 2

VIOLATION TYPE/CONTAMINANT

NUMBER OF VIOLATIONS BY POPULATION CATEGORY

	100 & UNDER	500	101-500	1,001-1,000	501-2,500	2,501-3,300	3,301-5,001	5,001-10,000	10,001-50,001	50,001-75,001	75,001-100,000	OVER 100,000
TOTAL	100	2	101	501	1,001	2,501	3,301	5,001	10,001	50,001	75,001	100,000

SINGLE SAMPLE MCL

Turbidity	1	25	14	26	5	65	5	12	7			160
Barium	3	27										30
Cadmium	3		1	1								5
Chromium	1											1
Fluoride						2			1			3
Lead				6								9
Mercury		1	2									3
Nitrate (As N)	98	57	37	34		20	15					261
Selenium	3	1		1	1							6
Silver			1			1			1			3
Endrin		1		1			1					4
Lindane				1								1
Methoxychlor		1										1
Toxaphene		1		1								2
2,4,5-TP Silvex				1								1
Coliform	2	1	1	2			4	9	1			20
SUB TOTAL	111	115	56	74	6	88	27	23	10			510

AVERAGE MCL

Turbidity	16	312	144	246	23	118	49	2074	30			1,145
Thm									2			9
p-Dichlorobenzene							2		1			3
Vinyl Chloride						2						4
1,1-Dichloroethylene							2		1			3
1,2-Dichloroethane							2		3			3
1,1,1-Trichloroethane							3		1			5
Carbon Tetrachloride						2			18			4
Trichloroethylene							2		1			22
Benzene							2					3
Coliform	608	504	128	104	28	35	24	18	1			2
Gross Alpha, Excl. Radon & Combined Radium (-226 & -228)	2	4	2									1,452
SUB TOTAL	627	821	274	350	51	157	92	256	33			2,663

COUNT OF NUMBER

11/08/89

FRD5198

EPA REGION III

STATE: PENNSYLVANIA

C01

PRIMACY: Y

C05

FEDERAL REPORTING DATA SYSTEM - FRDS-II  
SYSTEMS IN VIOLATION-SUMMARY BY POPULATION

PAGE 2

NUMBER OF SYSTEMS IN VIOLATION BY POPULATION CATEGORY									
100 &	101-	501-	1,001-	2,501-	3,301-	5,001-	10,001-	50,001-	OVER
UNDER	500	1,000	2,500	3,300	5,000	10,000	50,000	100,000	TOTAL

## VIOLATION TYPE/CONTAMINANT

SINGLE SAMPLE MCL	1	8	7	10	3	9	4	3	2	
Turbidity	1	3								47
Barium	1	3								4
Cadmium	2		1	1						4
Chromium	1									1
Fluoride						2			1	3
Lead				4			2	1		7
Mercury		1	1							2
Nitrate (As N)	24	10	3	3		2	1			43
Selenium	1	1		1	1					4
Silver			1			1			1	3
Endrin		1		1			1			4
Lindane				1						1
Methoxychlor		1								1
Toxaphene		1		1						2
2,4,5-TP Silvex				1						1
Coliform	2	1	1	2			4	7	1	16
SUB TOTAL	31	22	12	16	4	12	11	10	3	123

AVERAGE MCL	4	17	13	20	7	12	6	12	3	
Turbidity							1	5	2	96
Thm							2	1		8
P-Dichlorobenzene						1	2	1		3
Vinyl Chloride							2	1		3
1,1-Dichloroethylene							2	1		3
1,2-Dichloroethane							2	1		3
1,1,1-Trichloroethane							3	1		4
Carbon Tetrachloride						2	2	4		4
Trichloroethylene							2	1		8
Benzene							2	1		3
Coliform	210	179	45	40	12	17	11	10	1	527
Gross Alpha, Excl. Radon &	2	2	1						2	5
Combined Radium (-226 & -2)	1	1								2
SUB TOTAL	212	183	46	47	16	21	17	26	5	577

COUNT OF SYSTEMS  
WITH THIS VIOLATIONLOCATE STATEMENT:  
LOCATE (0) C100 MH C3 EQ PA AND NK C103 EQ CAC AND NK C1135 EQ 88:

5.2.2.7 FRDS20 - Violation Summary by Primary Water  
Supply Source

FRDS20 is a summary report calculating violations by PWS source.

FRDS20 begins with information on the report selection criteria, or the details of the logical criteria, used in selecting the PWSs in the report and the total number of PWSs reported on.

In addition to the report selection criteria information, FRDS20 contains a body composed of a varying number of pages containing the specified information on the selected PWSs.

A report example follows on the next page.

FEDERAL REPORTING DATA SYSTEM - FRDS-II  
VIOLATION SUMMARY BY PRIMARY WATER SUPPLY SOURCE

PAGE 2

11/06/89  
FRDS20  
EPA REGION III  
STATE: PENNSYLVANIA  
PRIMACY: Y  
C01  
C03  
C05

VIOLATION TYPE/CONTAMINANT

NUMBER OF VIOLATIONS/SYSTEMS BY PRIMARY SOURCE  
SURFACE VIO/SYS  
GROUND VIO/SYS  
PURCHASED  
GROUND VIO/SYS  
TOTAL VIO/SYS

SINGLE SAMPLE MCL

Turbidity	12/	5				12/	5
Fluoride	1/	1				1/	1
Silver	1/	1				1/	1
Endrin	1/	1				1/	1
Lindane	1/	1				1/	1
Toxaphene	1/	1				1/	1
2,4,5-TP Silvex	1/	1				1/	1
Coliform	3/	3	2/	1		5/	4
SUB TOTAL	21/	6	2/	1		23/	9

AVERAGE MCL

Turbidity	34/	5				34/	5
Thm	3/	3				3/	3
Coliform	3/	3	1/	1		4/	4
SUB TOTAL	40/	10	1/	1		41/	11

REGULAR SAMPLING

Turbidity	10/	9				10/	9
Arsenic	6/	5	1/	1		7/	6
Barium	6/	5	1/	1		7/	6
Cadmium	6/	5	1/	1		7/	6
Chromium	6/	5	1/	1		7/	6
Fluoride	5/	4	1/	1		6/	5
Lead	6/	5	1/	1		7/	6
Mercury	7/	5	1/	1		8/	6
Nitrate (As N)	5/	4	1/	1		6/	5
Selenium	7/	6	1/	1		8/	7
Silver	7/	6	1/	1		8/	7
Endrin	5/	5	1/	1		6/	6
Lindane			1/	1		1/	1
Methoxychlor			1/	1		1/	1
Toxaphene			1/	1		1/	1
2,4-D			1/	1		1/	1

COUNT OF C1103  
(VIO-CONTAMINANT)

LOCATE STATEMENT:  
LOCATE (O) C100 NH C3 EQ PA AND NK C103 EQ CAC:

5.2.2.8 FRDS21 - Variance and Exemption Summary by  
Population (Not Available)

5.2.2.9 FRDS22 - Variance and Exemption Summary by

Primary Water Supply Source

(Not Available)



5.2.2.10 FRDS23 - Public Water Supply System Violation  
and Source Data (Not Available)

5.2.2.11 FRDS24 - Public Water Supply System Summary and  
Violation Data

FRDS24 is a detailed report of PWS plant location and violation summary data including violation duration in months.

FRDS24 begins with information on the report selection criteria, or the details of the logical criteria, used in selecting the PWSs in the report and the total number of PWSs reported on.

In addition to the report selection criteria information, FRDS24 contains a body composed of a varying number of pages containing the specified information on the selected PWSs. FRDS24 also contains a summary page as the last page of the report.

A report example follows on the next page.

11/06/89  
FRDS24

FEDERAL REPORTING DATA SYSTEM - FRDS-II  
PUBLIC WATER SYSTEM - SUMMARY VIOLATIONS AND ENFORCEMENTS

PAGE 2

SORTED BY PWS ID

PWS ID, TYPE	SYSTEM NAME/ADDRESS/TELEPHONE	POPULATION SERVED	PRM SRC	ID	TYPE	CNTN	VIOLATION		DATE	DUR	ENFORCEMENTS		
							RESULT	DATE			ID	ACT	DATE
PA1090026 C C101 C105	LOWER BUCKS JOINT MUN WATER OFF RADCLIFFE AVE TULLYTOWN (LEVITTOWN) PA 19055 (215) 945-7400	92,000	S	8913309	03	1035			06/26/88	12	8829198	IA	110188
				8829198	03	2969			07/01/88	03	8829198	IA	110188
				8829199	03	2977			07/01/88	03	8829198	IA	110188
				8829200	03	2980			07/01/88	03	8829198	IA	110188
				8829201	03	2981			07/01/88	03	8829198	IA	110188
				8829202	03	2982			07/01/88	03	8829198	IA	110188
				8829203	03	2984			07/01/88	03	8829198	IA	110188
				8829204	03	2990			07/01/88	03	8829198	IA	110188
				8829205	03	2210			07/01/88	03	8829198	IA	110188
				8829206	03	2214			07/01/88	03	8829198	IA	110188
				8829207	03	2216			07/01/88	03	8829198	IA	110188
				8829208	03	2380			07/01/88	03	8829198	IA	110188
				8829209	03	2406			07/01/88	03	8829198	IA	110188
				8829210	03	2410			07/01/88	03	8829198	IA	110188
				8829211	03	2412			07/01/88	03	8829198	IA	110188
				8829212	03	2413			07/01/88	03	8829198	IA	110188
				8829213	03	2414			07/01/88	03	8829198	IA	110188
				8829214	03	2416			07/01/88	03	8829198	IA	110188
C101 C105	C143 C141 C139	C131 C133 C137 C117 C119 C1101	C1123 C1103 C1105 C1107 C1111	C1201 C1205 C1203									

#### 5.2.2.12 FRDS31 - PWSs Months in Violation

FRDS31 is a summary report calculating the months in violation for selected PWSs. This summarization is performed for various categories of PWSs and their violations. Two elementary statistics - number of PWSs and their population served - are provided.

Population size and months in violation are the two axes of tabulation on every page of FRDS31. At successively higher levels of aggregation, summation is done first over violation type, then contaminant code, then primary source, then type of PWS, and finally geographic area by State and/or Region.

If user selection specifies the Primary Source (C11a), then the report shows the primary sources used in the selection. However, if the user does not specify the Primary Source (C11a), then the report is divided into only two categories - Surface and Ground - with both purchased and unpurchased sources being included together.

In addition to specifying criteria for selecting PWSs to be reported on, the user also specifies limits on the dates of violations to be considered. The user specifies a year and month as starting date of this range, and a later year and month as ending date.

The Geographic Area levels of aggregation are also specified by the user, e.g., State, Region, and/or Nation.

Computation for months in violation is handled in a special way. The user has the option of including all months of violation duration, if any month is within the date range, or excluding all months outside the date range.

For example, in computing how many months a PWS has been in violation for a particular Contaminant Code (C1103) and Violation Type (C1105), the report will count all months in violation for that particular Contaminant Code (C1103), which fall within the user-specified date range at the user's option. It will also count any months in violation before and/or after the date range for a violation, as long as at least one of the months in violation falls within the date range. Violation periods prior to January, 1976, are excluded.

In computing how many months a PWS has been in violation for a particular Contaminant Code (C1103) regardless of Violation Type (C1105), the report determines which months the PWS was in violation as before, but it counts a particular month only once if two or more different violations occurred in that month.

On the chart that follows on the next page, the method of computation is shown for a hypothetical report. The single PWS has MCL violations in the months of October, November, December, January, February, and May. Thus, for MCL

violations, the PWS for this FY had six months in which violations were reported. The PWS also had monitoring violations reported for the months of January, February, and June, or three months in the FY. Starting in October the occurrence of a single violation constitutes an accumulation of months in violation for computing purposes. However, the six months occurrence for MCL added to the three months occurrence for monitoring, do not constitute nine months combined, since MCL and monitoring types are redundant in the months of January and February, and should not be counted twice using each violation type month-occurrence.

#### Computing Months in Violation for a Single PWS

Raw Data	Type	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
for a	MCL	X	X	X	X	X				X			
Single PWS	MON				X	X					X		

#### Months in Violation Totals by Month

Violation Type	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MCL	1	2	3	4	5				6			
MON				1	2					3		
Combined	1	2	3	4	5				6	7		

The particular month in violation is based upon the Violation Date (C1107) with the range of months marked based upon the Violation Duration (C1111). MCL violations occurring in the first quarter for a duration of three months, would be portrayed differently depending on the violation date. The results would be as follows, assuming all other information was the same:

Violation Date	Months in Violation	Number of Months in Violation
=====	=====	=====
October	OCT,NOV,DEC	6
January	JAN,FEB,MAR	4

Similarly, when both Violation Type (C1105) and Contaminant Code (C1103) are rolled up to a higher level, a month is counted in violation only once, even if it had several different violation types and contaminant codes occurring in it.

The sample session beginning on the next page shows how to generate FRDS31. Report examples follow, the first of which includes all months of violation duration if any month is within the date range and the second excluding all months outside the date range.

```

                                FRDS-II/Interactive
                                Post Retrieval Output Options Menu
=====
(B) Batch Job Submission      (L) List in Standard Screen Format
(F) Frequency Distribution    (Q) Quicklook Report Generator

                                (E) End Post Retrieval

--> Enter the Code which corresponds to the desired Post Retrieval
    Output Option: b

***** FRDS-II Phase 1 Reports *****
Reports 1, 3, 7, 19, 20, 24, 31, 35, & 41 are available

***** FRDS-II Phase 2 Reports *****
Reports 17, 18, 21, 22, 23, 32, & 36 are NOT available

--> Enter the number of the desired FRDS report: 31                <- - - 1

Having selected a FRDS31 report, you must provide
additional information ...

Enter the Beginning date of the period you want covered in YYYY format:  <- - - 2
--> Date: 8901
Enter the Ending date of the period you want covered in YYYY format:
--> Date: 8910
Do you want this report to (I)nclude total months
in violation (including those months which may
precede or follow the requested date range)
or, do you want to (E)xclude those months that
precede or follow the requested date range?
--> (I)nclude or (E)xclude: i

```

continues on next page



continued from previous page

```
--> Do you want National totals on your FRDS31 report? (Y)es or (N)o: n <- - - 3
--> Do you want Regional totals on your FRDS31 report? (Y)es or (N)o: n
--> Do you want State totals on your FRDS31 report? (Y)es or (N)o: y
--> Do you want State totals on your FRDS31 report? (Y)es or (N)o: y
--> Do you want an Individual Primary Source summary listing?
    (Y)es or (N)o: y
--> Do you want a Group Primary Source summary listing?
    (Y)es or (N)o: y
--> Do you want an Aggregate Primary Source summary listing?
    (Y)es or (N)o: y

--> Do you wish to add an additional identifying title line to your
    FRDS31 report? (Y)es or (N)o: n

Your current Job parameters are:

        FINAS ID: xxxxxx
        Destination: RHTTrnn
        Bin/Box: dddd
        Estimated Time: Long
        Priority: 2
        Printer Type: Destination
        Copies of Report: 01

--> Are these parameters correct? (Y)es or (N)o? y

Job 7457 Submitted ...
```

```
1<- - - The user selects the FRDS31 report.
2<- - - The user establishes the violation data range.
3<- - - The user may select desired totals and summaries.
4<- - - Verify that report routing information is correct.
```

**NOTE:**

LOCATE STATEMENT:  
LOCATE (0) C100 NM C3 EQ PA AND NK C103 EQ CAC:

FEDERAL REPORTING DATA SYSTEM - FRDS-II

FRDS31 REPORT NOTES

- NOTE 1: The number of Public Water Supplies (count of C101) for the PWSs identified by the locate statement noted below.
- NOTE 2: The sum of PWS-RETAIL-POP-SERVED (C117) for the PWSs identified by the locate statement noted below.
- NOTE 3: The sum of PWS-RETAIL-POP-SERVED (C117) for a given population category, months in violation, violation criteria, PWS criteria and violation date range.
- NOTE 4: The ratio of qualifying PWSs divided by the PWS-RETAIL-POP-SERVED (C117) on the page of the report shown, to the total domain identified by the locate statement noted below.
- NOTE 5: The number of PWSs for a given population category, months in violation, violation criteria, and violation date range.

```
* * * * *
*
*   LOCATE STATEMENT:
*
*   LOCATE C100 WH C3 E2 PA AND NK C103 E2 CAC:
*
* * * * *
```



#### 5.2.2.13 FRDS35A - Annual Data Evaluation

FRDS35 will generate a list of PWS IDs to be used as input to other FRDS-II reports. Selection of PWS IDs may be done in its entirety, or a random selection may be performed. To accomplish this processing of FRDS35, the system asks further questions in addition to those asked for other reports.

The first question asks the user to specify the sample size of selected PWSs to be used. If the user enters the maximum sample size, 999999, then all selected PWSs will be used. The second question asks whether the sample size is to be used for each State, or is to be applied to the entire selected population. This second question thus determines whether a single report, or a separate report for each State is to be produced. For example, if the user desires to select 10 PWSs from each State, then the second question would be answered 'Y'. If, on the other hand, the user wanted 10 PWSs Nation/Region wide, then the question would be answered 'N'. If selection is made from only a single State, then an answer of 'Y' or 'N' has the identical result.

The sample session beginning on the next page shows how to generate FRDS35. A report example follows.

```

FRDS-II/Interactive
Post Retrieval Output Options Menu
=====
(B) Batch Job Submission      (L) List in Standard Screen Format
(F) Frequency Distribution    (Q) Quicklook Report Generator

      (E) End Post Retrieval

--> Enter the Code which corresponds to the desired Post Retrieval
      Output Option: b

***** FRDS-II Phase 1 Reports *****
Reports 1, 3, 7, 19, 20, 24, 31, 35, & 41 are available

***** FRDS-II Phase 2 Reports *****
Reports 17, 18, 21, 22, 23, 32, & 36 are NOT available

--> Enter the number of the desired FRDS report: 35      <- - - 1

Having selected a FRDS35 report, you must provide
      additional information ...

Do you want to select (A)ll PWSs which are qualified by the Locate command
      presently in use, or do you want to select only a (R)andom sample from
      those qualified by the Locate command presently in use?
--> Select (A)ll or select a (R)andom sample only: r      <- - - 2
How many random samples do you want select?
--> Random samples (1 to 999999): 2      <- - - 3
--> Do you want the number of random samples specified to be selected for
      each State which has been qualified? (Y)es or (N)o: y

A file containing the PWS IDs of the systems selected will be created
      for your later use ...      <- - - 4

Please note the following file name for future reference:
LVEFRDS.D891025.T193742.PWSIDS      <- - - 5

```

continues on next page

continued from previous page

```
--> Do you wish to add an additional identifying title line to your
      FRDS35 report? (Y)es or (N)o: n      <- - - 6

--> Do you want to sort the report data? (Y)es or (N)o: n

Your current Job parameters are:

      FIMAS ID: zzzzz      <- - - 7
      Destination: RMTnnn
      Bin/Box: dddd
      Estimated Time: Long
      Priority: 2
      Printer Type: Destination
      Copies of Report: 01

--> Are these parameters correct? (Y)es or (N)o? y

Job 7463 Submitted ...
```

```
1<- - - The user selects FRDS35.
2<- - - The user selects a random subset of qualified PWSs.
3<- - - The user chooses the desired number of randomly selected, qualified
      PWSs. If the user had chosen to use all of the qualified PWSs, this
      prompt would not have appeared.
4<- - - The user has the choice of saving the selected PWS IDs in a data set
      for later use.
5<- - - The system displays the data set name of selected PWS IDs.
6<- - - The user may specify an additional title line for FRDS35.
7<- - - Report routing may be verified. A response of "n" would allow the
      user to make changes in the routing information.
```

```

graph TD
    C01[C01] --> EPA_REGION[EPA REGION: 03]
    C03[C03] --> PRIVACY_STATE[PRIVACY STATE: PA]
    C05[C05] --> PRIMARY[Y]
    NO_SORT[NO SORT REQUESTED]
    PWS_ID[PWS ID: PA446009] --> C101[C101]
    PHONE[(717) 935-2890]
    SYSTEM_NAME[SYSTEM NAME : UNION TWP MUN WATER AUTHORITY]
    SYSTEM_ADDRESS[SYSTEM ADDRESS: PO BOX 5625  
BELLEVILLE]
    C137[C137] --> BELLEVILLE
    C135[C135] --> BELLEVILLE
    C131[C131] --> PA_17004[PA 17004]
    C139[C139] --> PA_17004
    C141[C141] --> PA_17004
    C143[C143]
    GRANT_ELIGIBLE[GRANT ELIGIBLE]
    STATUS[STATUS]
    PLANT_TYPE[PLANT TYPE]
    OWNER_TYPE[OWNER TYPE]
    C102[C102] --> GRANT_ELIGIBLE
    C105[C105] --> PLANT_TYPE
    ADDRESSES[ADDRESSES: NONE] --> C300[C300]
    N[N]
    CAC[CAC]
    C[C]
    C103[C103]
    C163[C163]

```

ADDRESSES: NONE  
PLANT SERVICE AREA:

## SUBCATEGORIES

ID	MAJOR CATEGORY
01	RESIDENTIAL

[illegible]

**GEOGRAPHIC AREAS SERVED :**

ID	ADMIN REGION	ADMIN DIST	CONG DIST	STATE COUNTY	FIPS COUNTY	MSA	INDIAN RESV CD	CITY
01	C501	33	C505	08	C509	C511	C515	C513

SOURCE AND/OR ENTRY POINT INFORMATION:  
 C507  
 C508  
 C509  
 C511  
 C515  
 C513

[C501] [C502] [C503] [C504]  
 SOURCE AND/OR ENTRY POINT INFORMATION:  
 (SRC) (EPT)

(SRC)		(EP)		DATA		TREATMENTS	
TYPE	TD	NAME	COOP	AVAIL	ORG	LAY	LONG
			SELLER	ID	OBJECTIVE	PROCESS	
-----							

SRC		P	S	01 Treated	Prechlorination (Converted FADS 1
001	CAMPBELLS RUN	S	P	S	0403814 0774347
002	SOFT RUN	S	P	S	0403703 0774557
003	WELL FIVE	S	P	S	0403614 0774431
				01 Not Treated	No Treatment / Not Applicable

DATA SET NAME OF PWS IDS  
GENERATED BY ENROUTE REPORT



FEDERAL REPORTING DATA SYSTEM - FRDS-II  
ANNUAL DATA EVALUATION REPORT

11/05/89  
FRDS35

NO SORT REQUESTED

EPA REGION: 03 PRIMARY STATE: PA PRIMARY: Y PWS ID: PA4560032

CONTAMINANT ID MODIFIED MCL CODE ID

-----VARIANCE OR EXEMPTION-----

-----ENFORCEMENTS-----

LEGAL STATUS DATE ID RELATED VIOLS

C3003	C3013	C3019	C3001	IA	02/13/86	8601972	8601972
				IA	03/06/86	8603624	8603624
				IA	04/18/85	8500203	8500203
				IA	11/01/85	8538012	8500556
				FX	11/19/85	8542220	8538012
				IE	02/22/84	8405893	8542221
				EB	09/30/82	8210153	8405893
				07	03/19/82	8217864	8210661
				IF	10/15/82	8228083	8228515
				IF	11/19/80	8110179	8217864
				IF	12/19/80	8110823	8228084
				IF	01/19/81	8111467	8110179
				IF	02/19/81	8119582	8110823
				IF	03/19/81	8120279	8111467
				IF	04/19/81	8121052	8119582

PHSID FILE NAME USED:  
LVEFRDS.D891108.T165053.PHSIDS

11/08/89  
FRDS35

FEDERAL REPORTING DATA SYSTEM - FRDS-II  
ANNUAL DATA EVALUATION REPORT

PAGE 6

NO SORT REQUESTED

EPA REGION: 03      PRIMARY STATE: PA      PRIMARY: Y      PHS ID: PA4560032

				VIOLATIONS				VIOLATIONS			
CONT	BEGIN	AWARE	ANALYTICAL	SHIP	SHIP	ANALYTICAL	VIOLATIONS	SHIP	SHIP	ANALYTICAL	VIOLATIONS
ID	TY	DATE	DUR	TKN	TKN	RESULT	IO	TKN	TKN	RESULT	ID
0100	04	11/01/85	001	000	000		8601972	000	000		8603624
0100	04	10/01/84	001	000	000		8500203	000	000		8500556
1040	03	06/25/84	012	000	000		8525019	000	000		8525020
1050	03	06/25/84	012	000	000		8525021	000	000		8525023
1025	03	06/25/84	012	000	000		8525024	000	000		8525025
1035	03	06/25/84	012	000	000		8525026	000	000		8525027
1010	03	06/25/84	012	000	000		8525028	000	000		8525029
0100	04	07/01/85	001	000	000		8538012	000	000		8542220
0100	04	09/01/85	001	000	000		8542221	000	000		8400213
3000	03	12/01/83	001	000	000		8405893	000	000		8421059
05	10/01/81	001	001	000	000		8210153	000	000		8210681
05	02/01/82	001	001	000	000		8217884	000	000		8228083
3000	04	07/01/82	001	002	002		8228084	000	000		8228515
05	09/01/82	001	001	000	000		8231800	000	000		8110179
0100	03	11/01/80	001	000	000		8110823	000	000		8111467
0100	03	01/01/81	001	000	000		8119582	000	000		8120279
0100	03	03/01/81	001	000	000		8121052	000	000		8102336
0100	03	05/01/80	001	000	000		8010539	000	000		8010911
3000	03	10/01/79	001	000	000		8011133	000	000		8011449
0100	03	07/01/80	001	000	000		8011746	000	000		8011939
0100	03	04/01/80	001	000	000		8012538	000	000		8015094
3000	03	12/01/79	001	000	000		8017392	000	000		8020264
0100	03	08/01/80	001	000	000		8020761	000	000		8020802
3000	03	02/01/80	001	000	000		8020858	000	000		8020919
3000	03	04/01/80	001	000	000		8020108	000	000		8030710

C1103

C1105

C1107

C1110

C1115

C1129

C1123

C1101

5.2.2.14 FRDS36 - Informal Enforcement Actions

(Not Available)

5.2.2.15 FRDS37 - Multiple Year Violations (Not Available)

### 5.2.3 Option 'C' - Create a File for SAS - Sequential File

(Not Available)

#### 5.2.4 Option 'F' - Frequency Distribution of Data Report

Option 'F' of the Post-Retrieval Options Menu generates the Frequency Distribution of Data Report. This report may be displayed on a terminal or printed on an off-line, high speed printer.

The Frequency Distribution of Data Report provides a frequency distribution table of unique code value occurrences for a specified data element, based upon the currently selected PWS(s). The report always lists the unique code values and the total number of occurrences. The frequency distribution may optionally be sorted by occurrence.... from most to fewest.

The sample session on the next page shows how to use Option 'F'. Report samples and explanations are also provided in the sample session.

FRDS-II/Interactive  
Post Retrieval Output Options Menu

=====

(B) Batch Job Submission      (L) List in Standard Screen Format  
(F) Frequency Distribution      (Q) Quicklook Report Generator

(E) End Post Retrieval

--> Enter the Code which corresponds to the desired Post Retrieval  
Output Option: f

\*\*\*\* FREQUENCY OPTION \*\*\*\*  
You may interrupt the processing of a component by  
pressing the <BREAK> key twice.  
--> Do you wish to produce a Frequency Distribution? (Y)es or (N)o: y  
--> Enter the Data Element Number: c1103 \*  
--> Do you wish to sort distribution by occurrence (most/fewest)?      <- - -1  
(Y)es or (N)o: n

Where should the report be produced?  
On your (T)erminal or a High-speed (P)rinter: t

\*\*\*\*\*  
01/03/89  
TALLY OF C1103 - VIO-CONTAMINANT  
\*\*\*\*\*

OCCURRENCES	VALUE
341	0100
36	1005
41	1010
35	1015
36	1020
38	1025
39	1030
37	1035
66	1040
38	1045
36	1050
37	1052
1	2005
22	2950
1240	3000
5	4000
2	4100
2	4102
2	4174

\*\*\*\*\*  
19      UNIQUE VALUES      <- - - 2  
2054      TOTAL OCCURRENCES

\*\*\*\*\*  
LOCATE C1100 WH C3 EQ PA AND C103 EQ CAC AND C1135 EQ 87:      <- - - 3  
\*\*\*\*\*

Would you like to route this report now to a printer? (Y)es or (N)o: n

--> Do you wish to produce another Frequency Distribution? (Y)es or (N)o: y

--> Enter the Data Element Number: c1103

--> Do you wish to sort distribution by occurrence (most/fewest)? <- - - 4  
(Y)es or (N)o: y

Where should the report be produced?  
On your (T)erminal or a High-speed (P)rinter: t

\*\*\*\*\*  
01/03/89  
TALLY OF C1103 - VIO-CONTAMINANT  
\*\*\*\*\*

OCCURRENCES	VALUE
1240	3000
341	0100
66	1040
41	1010
39	1030
38	1025
38	1045
37	1035
37	1052
36	1005
36	1020
36	1050
35	1015
22	2950
5	4000
2	4100
2	4102
2	4174
1	2005

\*\*\*\*\*

19	UNIQUE VALUES	<- - - 5
2054	TOTAL OCCURRENCES	

\*\*\*\*\*

LOCATE C1100 WH C3 EQ PA AND C103 EQ CAC AND C1135 EQ 87: <- - - 6

\*\*\*\*\*

Would you like to route this report now to a printer? (Y)es or (N)o: n

--> Do you wish to produce another Frequency Distribution? (Y)es or (N)o: y

--> Enter the Data Element Number: c603

--> Do you wish to sort distribution by occurrence (most/fewest)? <- - - 7  
(Y)es or (N)o: n

---> Data normalized to PHS-level <- - - 8



Where should the report be produced?  
On your (T)erminal or a High-speed (P)rinter: t

\*\*\*\*\*  
01/03/89  
TALLY OF C603 - PWS-SERV-CATEGORY  
\*\*\*\*\*

OCCURRENCES	VALUE
740	O1
196	O9
424	R1
267	R2
4	R9
5	S1
46	S2
20	T1
2	T2
5	T4
1	T6
4	T9

\*\*\*\*\*  
12 UNIQUE VALUES  
1714 TOTAL OCCURRENCES  
0 PWS WITHOUT PWS-SERVICE-AREAS  
\*\*\*\*\*

<- - - 9

LOCATE C1100 WH C3 EQ PA AND C103 EQ CAC AND C1135 EQ 87:  
\*\*\*\*\*

<- - - 10

Would you like to route this report now to a printer? (Y)es or (N)o: y

Report File Disposition - (K)eeP for later printing or (D)eleTe:

Now:

--> k

<- - - 11

Your current Job parameters are:

FIMAS ID: XXXXX  
Destination: RMT114  
Bin/Box: XXXX  
Estimated Time: Short  
Priority: 4  
Printer Type: Destination  
Report File Disposition: Keep  
Number of Pages of Output: Average  
Copies of Report: 01

--> Are these parameters correct? (Y)es or (N)o? y

Job 9378 Submitted ...

--> Do you wish to produce another Frequency Distribution? (Y)es or (N)o: n

- 1 <- - - The user chooses not to sort the output by occurrence from most to fewest.
- 2 <- - - The detailed output is summarized.
- 3 <- - - The report's data selection criteria statement is displayed.
- 4 <- - - The user chooses to generate a second report and sort the output by occurrence from most to fewest.
- 5 <- - - The detailed output is summarized.
- 6 <- - - The report's data selection criteria is displayed.
- 7 <- - - The user chooses to generate a third report and not to sort the output by occurrence from most to fewest.
- 8 <- - - System message indicating that a different data base path will be used.
- 9 <- - - The detailed output is summarized.
- 10 <- - - The report's data selection criteria is displayed.
- 11 <- - - The user chooses to keep the selected data in a report file for later reference.

#### 5.2.5 Option 'G' - Graphs or Maps (Not Available)

5.2.6 Option 'I' - Invoke IDRS/CERCLIS - IDRS State Map

IDRS Region Map, IDRS United States Map,

Report for Cross-Walk One, Reports for

Crosswalks Two through Five.

(Not Available).

5.2.7 Option 'K' - Kounts or Sums of PWS Elements - Count/  
Summation of Data Report (Not Available)

## 5.2.8 Option 'L' - List in Standard Screen Format -

### Reports for Suboption Screens

Option 'L' of the Post-retrieval Processing Options Menu allows the user to list information for previously selected PWSs. The user may optionally sort the selected PWSs or browse through the output in an on-line mode.

The available reports generated through suboption screens are as follows:

#### Primary/Secondary Screen Types

=====

Suboption Screen	Type of On-line Information
---------------------	-----------------------------

-----

1	PWS and Service Area Information
2	PWS and Source Information
3	PWS Related Violations
4	PWS Variance and Exemptions Data
5	PWS Related Enforcements

When the user has selected Function 'A', which retrieves only PWSs with violations, FRDS/Interactive invokes the Primary Screen Type #3 automatically and skips to the sort question.

When the user has selected Function 'X' the system prompts you for a Primary Screen Type.

In Function 'E' or 'X', the user has the choice of specifying various Secondary Screen Types for viewing data on individual PWSs. Then, the PWSs may be optionally sorted in one of several predefined ways.

Option 'L' gives the user the capability of viewing selected PWSs in the browse mode. The reports may be displayed one PWS at a time on a terminal, or the entire set of selected PWSs may be printed off-line on a high-speed printer.

The sample session beginning on the next page shows how to use Option 'L'. Report examples for each of the five suboption screens follow.

FRDS-II/Interactive  
Post Retrieval Output Options Menu

(B) Batch Job Submission      (L) List in Standard Screen Format  
(F) Frequency Distribution      (Q) Quicklook Report Generator

(E) End Post Retrieval

--> Enter the Code which corresponds to the desired Post Retrieval  
Output Option: 1

--> Do you want to sort the report data? Y/N: n

--> Do you want output listed offline? Enter Y/N: n

--> Display these violations? Enter Y/N: y

--> Stop after each PWS? Enter Y/N: y

81 \*\*\*\*\*

PWS-ID: PA1090001

PWS-STATUS: CAC

STATE REGION: 01

SYSTEM NAME

STATE DISTRICT: 11

BRISTOL BOROUGH WATER & SEWER

CITY:

FIPS COUNTY: 017

POND & MULBERRY STS

BRISTOL PA 19007

POSTING DATE: 09/07/89

(215) 766-3636

INV LAST UPDATED:

PRIMARY SOURCE: S      TOTAL VIOLATIONS:      25  
OWNER-TYPE: 4

POPULATION SERVED:      30,000  
SERVICE CONNECTIONS:      8,540

PRIMARY SERVICE AREA(S):

Residential Area

\*\*\*\*\*

CURRENTLY AT PWS      1 OUT OF      753 POSSIBLE PWS'S

YOU CAN BROWSE THRU THE SELECTED PWS FILE IF YOU WISH

YOUR OPTIONS FOR BROWSING ARE:

F = FIRST PWS

L = LAST PWS

N = NO BROWSE, USE NEXT PWS

E = END BROWSING, SELECT NEXT FUNCTION

S = SKIP THRU THE SELECTED PWS FILE

C = CHANGE TO DIFFERENT SCREEN FOR THIS PWS

continued on next page



```

--> Enter your option, please: c
--> Enter secondary screen selection type (1 to 5): 2
*****
PMS-ID: PA1090001      PMS-STATUS: CAC      STATE REGION: 01
SYSTEM NAME/ADDRESS:    OWNER NAME/ADDRESS:    STATE DISTRICT: 11
    BRISTOL BOROUGH WATER & SEWER

    POND & MULBERRY STS
    BRISTOL      PA 19007
    (215) 786-3636

                                INV LAST UPDATED:

PRIMARY SOURCE: S    TOTAL VIOLATIONS:    25    POPULATION SERVED:    30,000

---SOURCE---      REC      DATA      TREATMENTS
ID      NAME      TYP COD AVA ORIG RIVER REACH LATITUDE LONGITUDE ID OBJ PRO
-----
001 DELAWARE RIVER S    S    P    S              400546    0745110    01 Y 082
                                           02 Y 083
                                           03 Y 084
                                           04 Y 085
                                           05 Y 092
002 3 WELLS          S    G    P    S              400740    0744940    01 Y 081
                                           02 Y 082
                                           03 Y 092
*****
CURRENTLY AT PMS      1 OUT OF      753 POSSIBLE PMS'S

```

continued on next page

```

--> Enter your option, please: c
--> Enter secondary screen selection type (1 to 5): 3
*****
PMS-ID: PA1090001          PMS-STATUS: CAC          STATE REGION: 01
SYSTEM NAME                STATE DISTRICT: 11
BRISTOL BOROUGH WATER & SEWER    FIPS COUNTY: 017

PRIMARY SOURCE: S    TOTAL VIOLATIONS:    25    POPULATION SERVED:    30,000

-----VIOLATIONS AND ENFORCEMENTS-----
CNTH TY    DATE    VIO-ID                                DUR ENF-ID    ACTION
-----
1015 01 04/14/89 8912813 MCL VIO: .01000 RSLT: .08600 2 8912813 FJ
1015 04 06/26/88 8912815 SAMP-REQUIRED: 003 / TAKEN: 000 1 8912815 FJ
2020 03 06/24/82 8510963 SAMP-REQUIRED: 001 / TAKEN: 000 36 8510963 FX
2015 03 06/24/82 8510965 SAMP-REQUIRED: 001 / TAKEN: 000 36 8510963 FX
1050 03 06/25/84 8510966 SAMP-REQUIRED: 001 / TAKEN: 000 12 8510963 FX
2010 03 06/24/82 8510967 SAMP-REQUIRED: 001 / TAKEN: 000 36 8510963 FX
1045 03 06/25/84 8510968 SAMP-REQUIRED: 001 / TAKEN: 000 12 8510963 FX
2005 03 06/24/82 8510969 SAMP-REQUIRED: 001 / TAKEN: 000 36 8510963 FX
1040 03 06/25/84 8510970 SAMP-REQUIRED: 001 / TAKEN: 000 12 8510963 FX
2110 03 06/24/82 8510971 SAMP-REQUIRED: 001 / TAKEN: 000 36 8510963 FX
1015 03 06/25/84 8510972 SAMP-REQUIRED: 001 / TAKEN: 000 12 8510963 FX
2105 03 06/24/82 8510973 SAMP-REQUIRED: 001 / TAKEN: 000 36 8510963 FX
1010 03 06/25/84 8510974 SAMP-REQUIRED: 001 / TAKEN: 000 12 8510963 FX
1005 03 06/25/84 8510975 SAMP-REQUIRED: 001 / TAKEN: 000 12 8510963 FX
0100 03 06/01/85 8510976 SAMP-REQUIRED: 030 / TAKEN: 000 1
1035 03 06/25/84 8510977 SAMP-REQUIRED: 001 / TAKEN: 000 12 8510963 FX
1030 03 06/25/84 8510978 SAMP-REQUIRED: 001 / TAKEN: 000 12 8510963 FX
1025 03 06/25/84 8510979 SAMP-REQUIRED: 001 / TAKEN: 000 12 8510963 FX
1020 03 06/25/84 8510980 SAMP-REQUIRED: 001 / TAKEN: 000 12 8510963 FX
0100 03 07/01/85 8537642 SAMP-REQUIRED: 031 / TAKEN: 000 1 8537642 IC
05 04/01/82 8205724 1 8205724 E#
05 05/01/82 8206204 1 8205724 E#
05 08/01/82 8200319 1 8205724 E#
05 07/01/82 8227858 1 8205724 E#
3000 03 06/01/81 8133793 SAMP-REQUIRED: 035 / TAKEN: 000 1 8133793 IA
*****
CURRENTLY AT PMS                1 OUT OF                753 POSSIBLE PMS'S

```

continued on next page

```

--> Enter your option, please: c
--> Enter secondary screen selection type (1 to 5): 4
*****
PMS-ID: PA1090001      PMS-STATUS: CAC      STATE REGION: 01
SYSTEM NAME              STATE DISTRICT: 11
BRISTOL BOROUGH WATER & SEWER      FIPS COUNTY: 017

PRIMARY SOURCE: 9  TOTAL VIOLATIONS: 25  POPULATION SERVED: 30,000

-----VARIANCES/EXEMPTIONS-----
TYPE  CNTH  VE-ID  MODIFIED MCL  EXP DATE  ACTION  REASON
-----
NO VARIANCES/EXEMPTIONS FOR THIS PWS IN DATA BASE
*****
CURRENTLY AT PWS              1 OUT OF              753 POSSIBLE PWS'S

```

continued on next page

```

--> Enter your option, please: c
--> Enter secondary screen selection type (1 to 5): 5
*****
PMS-ID: PA1090001      PMS-STATUS: CAC
SYSTEM NAME
BRISTOL BOROUGH WATER & SEWER

PRIMARY SOURCE: S  TOTAL VIOLATIONS: 25  POPULATION SERVED: 30,000

-----ENFORCEMENT ACTIONS-----

```

ENF-ID	ACTION DATE	ACTION	ID	VIOLATION DATE	TYPE	CNTM ID
8912813	06/01/89	FJ	8912813	04/14/89	01	1015
8912815	06/01/89	FJ	8912815	06/26/88	04	1015
8510963	10/21/85	FX	8510963	06/24/82	03	2020
			8510965	06/24/82	03	2015
			8510966	06/25/84	03	1050
			8510967	06/24/82	03	2010
			8510968	06/25/84	03	1045
			8510969	06/24/82	03	2005
			8510970	06/25/84	03	1040
			8510971	06/24/82	03	2110
			8510972	06/25/84	03	1015
			8510973	06/24/82	03	2105
			8510974	06/25/84	03	1010
			8510975	06/25/84	03	1005
			8510977	06/25/84	03	1035
			8510978	06/25/84	03	1030
			8510979	06/25/84	03	1025
			8510980	06/25/84	03	1020
8537642	10/07/85	IC	8537642	07/01/85	03	0100
8205724	09/30/82	EB	8205724	04/01/82	05	
			8206204	05/01/82	05	
			8200319	08/01/82	05	
			8227850	07/01/82	05	
8133793	07/19/81	IA	8133793	06/01/81	03	3000

```

*****
CURRENTLY AT PMS 1 OUT OF 753 POSSIBLE PMS'S

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5.2.9 Option 'M' - Map of PWS by State, Region, or United  
States - PWS State Map, PWS Region Map, PWS  
United States Map (Not Available)

#### 5.2.10 Option 'Q' - Quicklook Report Generator

Section 5.2.10 contains general information relative to the features and operation of the FRDS-II Quicklook Report Generator (QUICK), version 5.0.

QUICK permits the user of FRDS-II/Interactive to design and print a report according to his/her own specifications. This is accomplished through user responses to a series of clear and easily understood prompts.

QUICK is invoked via the "(Q)uicklook" output processing option of FRDS-II/Interactive.

The data displayed on a QUICK report represents that subset of data extracted by way of the "LOCATE" performed prior to the entry into QUICK. The "LOCATE" is formulated as a result of the ".", "E", or "X" functions of FRDS-II/Interactive.

The remainder of section 5.2.10 contains five subsections as follows:

Subsection I. Characteristics of the QUICK report that are  
controlled by the user

Subsection II. Special notes relative to the use and operation  
of QUICK

Subsection III. Understanding the QUICK report

Subsection IV. Data Elements that are displayed in an edited  
fashion

Subsection V. Example QUICK on-line session and example  
QUICK report

\*\*\*\*\*  
\* Subsection I. Characteristics of the QUICK report that are \*  
\* controlled by the user \*  
\*\*\*\*\*

Through prompts issued, the user can specify the following characteristics about the QUICK report that is to be produced:

1. The maximum number of characters that can be printed per line.

Permissible responses may range from 60 to 132. Most typically, one would use 80 characters per line if you intend to display the report on your terminal and 132 characters per line if you intend to print the report on a high-speed printer.

2. The maximum number of lines that can be printed per page.

Permissible responses may range from 17 to 58. Most typically, one would use 24 lines per page if you intend to display the report on your terminal and 58 lines per page if you intend to print the report on a high-speed printer.

3. The minimum number of spaces that should occur between consecutive columns printed.

Permissible responses may range from 1 to 10. The number used in actual practice will be based on your personal experience and preference. It is recommended that you experiment with the minimum inter-column spacing until you are satisfied with the effect produced by your choice.

Please note, however, that the actual number of spaces that will appear between columns is affected by what is being printed in consecutive columns, and other options you have chosen to use (e.g., totaling, code value translation, etc.).

4. A report title, if desired.

Permissible responses range from no title at all to a title that has a length of less than or equal to the maximum number of characters per line you specified. Upper and lower case letters may be entered if desired, however, most high speed printers will convert lower case letters to upper case when the report is printed.

The type of column headings that are to be printed.

Four (4) choices are available. They are:

- o Data element numbers as assigned in the FRDS-II data base definition;
- o Data element names as assigned in the FRDS-II data base definition;
- o User defined for each column ... permissible responses range from no column heading at all to a column heading that has a length of less than or equal to 30 characters or less than or equal to the number of characters that remain on the print line, whichever is smaller. Upper and lower case letters may be entered if desired, however,



most high speed printers will convert lower case letters to upper case when the report is printed;

- or -

- o No column headings at all.

6. The location at which the QUICK report is to be produced.

Two (2) choices are available. They are:

- o The user's terminal;

- or -

- o A high-speed computer printer. The printer can be located at the user's remote site, or at a site different than his/her own.

7. The type of totaling that is to be performed.

Five (5) choices are available. They are:

- o Count ... for each data element printed, QUICK checks each data element's value. If it is a unique and significant value (See note below), it is counted;
- o Sum ... for each data element printed QUICK checks each data element's value. If it is a unique and quantitative value, it is summed;
- o Both Count and Sum;

o User-defined by column;

- or -

o No totaling at all.

Note: A significant value is one that is non zero, not null,  
and not blank.

In each of the cases where a totaling option is chosen, grand totals are accumulated and printed at the report's end.

If the user requests that the report is to be paginated (described below), sub-totals are accumulated and printed each time the pagination data element's value changes.

If totaling has been requested, whether the report produced is to be a summary report. A summary report causes the individual detail lines to be omitted ... only sub-totals (as applicable) and grand totals are printed.

9. If a summary report has NOT been chosen, whether the report produced is to use repeat suppression. Repeat suppression causes a ditto mark to be printed in place of data that is identical to data on the preceding line and derived from the same data base record.

For example ... If you print the system name, the contaminant in violation, and the Enforcement ID, and the PWS has two violations

JOSEPH BROS. WTP	Coliform	89-12345	(line 1)
"	"	89-54321	(line 2)
"	Coliform	89-89012	(line 3)

First, note that lines 2 and 3 illustrate that the system name is identical and from the same data base record (in this case, the PWS-SUMMARY data base record) as is the system name on line 1. In other words, lines 2 and 3 are for the same PWS.

Next, note that line 3 illustrates that the contaminant in violation is identical, but that a ditto mark is not printed. The reason is simple.

A ditto mark is printed on line 2 beneath "Coliform," because the contaminant in violation is identical to and is derived from, the same data base record (in this case, the VIOLATION-DATA data base record) as is the contaminant in violation on line 1 ... or, in other words, it is the same violation.

A ditto mark is not printed on line 3 beneath the previous line's ditto mark in the contaminant in violation column, because this contaminant in violation, although an identical value to the previous line's, is derived from a completely separate VIOLATION-DATA data base record ... it is a different violation.

10. For reports that are to be displayed at the user's terminal, whether QUICK is to pause at the end of each page of the report displayed and give the user the opportunity to continue

with the next page or not.

11. For reports that are to be displayed at the user's terminal, whether QUICK is to produce a general information report containing a complete description of the report to be produced or not.

Reports that are printed on a high-speed printer automatically have the general information report printed.

12. The data that is to be printed in each column of the QUICK report.

The user may enter any FRDS-II data element number or data element name in specifying what he/she wants printed. However, all data elements specified must belong to the same data base family. Refer to data base structure chart to determine the family to which a data element belongs. The data base family appears in the upper right-hand corner of each block which represents a data base record.

Hypothetically, a maximum of thirty-three (33) columns can be printed. In reality, however, this would be possible only in a situation in which 33 one-character data elements were to be printed with either no column headings, or a single character user defined column heading for each column.

A more reasonable and accurate estimate of the maximum number of columns that can be printed, is difficult to predict.

Although five (5) to fifteen (15) columns might seem reasonable to expect, the actual number will depend upon a number of related factors. Factors such as the maximum number of characters per line specified, the type of column headings being utilized, whether or not totaling is being performed, and the cumulative length of the data elements you are attempting to print, all affect the maximum number of columns that can be printed.

As the user specifies what is to be printed, three comments are in order. They are:

- o Numerous data elements' values are codes for which descriptions exist. QUICK automatically recognizes these data elements and requests that the user specify whether they want to print the code as it is stored in the data base, or the descriptions which describe these codes. If code descriptions are to be printed, the user must specify the number of characters of the descriptions to print.
- o Several data elements' values are textual in nature. QUICK automatically recognizes these data elements and requests that the user specify whether they want to print all, or only a specified number of the left-most characters of the data element's values.
- o Numerous data elements' values are printed in an edited fashion. This means that leading zeroes are suppressed (not printed) in quantitative values, commas and decimal points are inserted where appropriate in quantitative

values, and slashes or dashes are inserted in various other data elements' values to improve readability (e.g., dates, telephone numbers, etc.). Refer to Subsection IV for a complete list of data elements that are printed in an edited fashion.

13. Whether the report is to be paginated or not, and, if so, on what data element.

The report can be paginated on any FRDS-II data element that belongs to the same data base family as data elements that were specified to be printed.

The data element specified to be used in pagination is automatically used by QUICK as the first sort argument on which the report will be sorted.

Pagination can be performed only on a single data element. When this data element's value (or the value's description, if requested) changes, QUICK will produce count and/or sum sub-totals (if totaling was requested) and begin a new page.

14. The order in which the data on the QUICK report is to be sequenced.

The user may enter any FRDS-II data element number or data element name in specifying how the report is to be sequenced, so long as each data element specified belongs to the same family as data elements that were specified to be printed.

If the user chose to paginate his/her report, the data element on which pagination is performed is automatically inserted as the initial data element on which the report will be sorted.

It is possible, although not necessarily advisable, to sort the report on data elements that are not printed.

A maximum of ten (10) data elements may be specified in defining the report sequence. For each, the user is given the opportunity to specify whether the data is to be ordered in ascending (A to Z / zero to 9) or descending (Z to A / 9 to zero) sequence.

15. After a report has been generated, the user is given the option to re-generate it. If selected, several options such as destination and lines per page are again requested.
16. For reports that are being printed on a high-speed printer, the user is presented several options relative to the completion of this task.

Options include the user's box and account number, the output report routing, type of printing device on which the report is to be printed, and the number of copies of the report that are to be produced.

Please note that the prompts issued relative to these options are treated differently than all other QUICK prompts. Standard responses acceptable to other QUICK prompts (see Subsection

II. below) may or may not be acceptable responses to these prompts, or QUICK may act differently to a user's response here than it does in other places.

For example, a user reply of an exclamation point (!) to a typical prompt in QUICK signifies that you may want to discontinue the current report definition. Here, however, a user reply of an exclamation point to any prompt will offer the user the opportunity to cancel the printing of the pending report.

Another such example is in the manner in which QUICK reacts typically to a "null" user response (see Subsection II., item 5 below) compared to how it reacts here. QUICK typically permits a "null" response in only three instances, and it reacts by asking the user to confirm the "null" reply. To these prompts, on the other hand, QUICK treats a "null" reply to mean ... Do not alter the value that was previously associated with the item being requested.



\*\*\*\*\*  
\* Subsection II. Special notes relative to the use and operation of \*  
\* Quick \*  
\*\*\*\*\*

Items relative to the use and operation of QUICK version 5.0 are as follows:

1. Each time the user chooses the "(Q)uicklook" output processing option of FRDS-II/Interactive, an opportunity is given to display instructions about the QUICK report generator. When the user replies "Yes" to this option, several things occur. They are:
  - o The instructions are displayed;
  - o The user is given the opportunity to print a copy of this Quicklook documentation;
  - o The user is given a lengthy introduction prior to the initial "Data Element:" prompt for what to print in column number 1 as well as prior to the initial "Data Element:" prompt for the very first data element on which the report is to be sorted. Thereafter, an abbreviated form of this introduction is displayed.
2. The opportunity to display instructions is given only once per QUICK session. Therefore, a user who produces more than one report during a given QUICK session will be prompted for instructions prior to defining the first report only.

At every prompt issued to the user by the QUICK report.

generator, the entry of a question mark (?) or the entry of the word "HELP" causes the display of more information about the prompt issued. The prompt to which the "?" or the word "HELP" was entered as a response is then re-displayed.

4. At nearly every prompt issued to the user by the QUICK report generator, the entry of an exclamation point (!) permits the user to discontinue the present report definition, if so desired. If the user chooses not to continue the present report definition, an opportunity is given to define a new report or to return to FRDS-II / Interactive.

There are five (5) prompts to which the exclamation point is not a valid response. They are:

- o Would you like to continue the report definition;
- o Would you like to continue the report generation;
- o Would you like to print what was generated so far;
- o Would you like to continue with the next page;

- and -

- o Would you like to define a new report.

Further, prompts that deal with documentation or report printing on a high-speed printer (box, account number, destination, priority, copies, etc.) react differently to an exclamation point. To any of these prompts, an exclamation

point causes QUICK to verify your desire to cancel the print request.

5. A null response (pressing the <RETURN> key as the sole response to a prompt) is generally an unacceptable user reply to a prompt. However, it is acceptable in four (4) cases.

They are:

- o In response to the "Title:" prompt;
- o In response to the "Column Heading:" prompt;
- o In response to the "Data Element:" prompt when entering data elements to print, the data element on which to paginate, or data elements on which to sort;

- and -

- o In response to the box, account number, destination, priority, copies, etc. prompts when preparing to print the documentation or report on a high-speed printer.

In the first three cases, the user is asked to confirm the "null" response before being permitted to proceed.

In the fourth case, the value previously associated with that which is being requested remains unchanged.

6. At any "Data Element:" prompt issued to the user by the QUICK report generator, the entry of a pound sign (#) <RETURN> is synonymous with a "null" response as described in the

immediately preceding paragraph.

7. If a report is being displayed on the terminal and the <BREAK> or <ATTN> key is depressed, the user is notified of the state of completeness of the report and given an opportunity to continue the display of the report at the point where it was interrupted.

If the user chooses not to continue displaying the report, the remainder of the report is cancelled and an opportunity is given to regenerate the same report, define a new report, or to return to FRDS-II/Interactive.

8. If a report is being generated (being output to a high-speed printer), and the <BREAK> or <ATTN> key is depressed, the user is notified of the state of completeness of the report and given an opportunity to continue generating the report at the point where it was interrupted.

If the user chooses not to continue the report generation, the remainder of the report is cancelled and an opportunity is given which permits the user to proceed with printing that which was generated so far. Thereafter, the user is given the opportunity to regenerate the same report, define a new report, or to return to FRDS-II/Interactive.

9. If a report is being sorted, it cannot be interrupted.

10. When a data element to be printed contains code values, the

user is given the opportunity to print the code values or their associated descriptions. If associated descriptions are to be printed, the user must specify how many characters of the description are to be printed. If the number specified exceeds the length of the longest description available for that data element, the length of the longest description available is substituted for what was specified.

11. When incompatible options are requested, QUICK decides what options are to be used. For example:

- ◁ o Both Count and Sum totaling is requested but no summable data elements are specified to be printed ... Count only is assumed;
- o When Sum totaling only is requested but no summable data elements are specified to be printed ... No totaling is performed;
- o When Sum totaling only is specified and a summary report is requested but the user fails to select any summable data element to be printed ... The summary report request is ignored;
- o When totaling is specified on a column specific basis and a summary report is requested but the user fails to select any totaling for any column ... The summary report request is ignored.

12. QUICK will produce either a single spaced or double spaced report based upon what the user has requested to be printed.

If any data elements from the C0 data base record (STATE-SUMMARY) or the C100 data base record (PWS-SUMMARY) are being printed, and a data element or data elements from any descendant for the C100 data base record (C300, C400, C480, C500, C600, C700, C900, C1000, C1100, C1180, C1200, C1280, C1350, C3000, C3100, C4000 or C4050) are being printed also, the report will be double spaced. Otherwise, the report is single spaced.

\*\*\*\*\*  
\* Subsection III. Understanding the QUICK report \*  
\*\*\*\*\*

general, there is little about a QUICK report that should not be easily understood by the user. However, a few points are in order. They are as follows:

1. Each QUICK report has five lines of heading information on each detail page printed. These heading lines are centered on the output report based on the maximum number of characters per line specified by the user. The five lines contain the following:

- o Line 1 always reads, "FRDS-II Quick report Generator";
- o Line 2 always contains the current Date (obtained from the computer) and the page number of the report;
- o Line 3 contains either the Title specified by the user or the text, "Title Not Specified." Please note the following with respect to a user specified title:

- If the user enters leading spaces in a title, they will be ignored ... The user's response is left-justified;

- and -

- If the user specified title has multiple spaces between two words, they will be translated into a single space;

- o Line 4 contains either the report's sort sequence as specified by the user or the text, "Order: Sort Not Specified." If the Line contains a user specified sort sequence, it will appear as:

Order: Cnnnn/o Cnnnn/o ... Cnnnn/o

Where the "Cnnnn"'s will be replaced with the data element number(s) of the data on which the report's data was sorted, and the "/o"'s will be replaced with the order designated by the user for that data element's sort ... either "/A" meaning ascending sequence of "/D" meaning descending sequence.

If the number of data elements on which the report's data was sorted consume more space than exists on the print line (as defined by the maximum number of characters per line), only those sort data elements that will fit on the line will be printed.

- o Line 5 contains either the data element number on which the report is being paginated and the value of the data element being processed, or the text "For: Pagination not requested."

2. If the user chose data element numbers, data element names, or the user defined option for column headings, a blank line, a line of column headings, and another blank line will be printed.



If the user chose the "No column headings" option (Omit), a blank line will appear in place of the line of column headings.

The column heading line is formatted as follows:

- o If the data element number column heading option was chosen, data element numbers will be printed above each column in the format "Cnnnn" with periods on either side of the data element number to delineate the columns' total width;
- o If the data element name column heading option was chosen, data element names (as defined for the FRDS-II data base) will be printed above each column with periods on either side of the data element name to delineate the column's total width;

- or -

- o If the user defined column heading option was chosen, the column heading as entered by the user will be printed above each column. Please note the following with respect to user defined column headings:

- If the user enters leading spaces in a column heading, they will be ignored ... The user's response is left-justified;

- and -

- If the user's column heading has multiple spaces

between two words, they will be translated into a single space.

3. Six notes are in order with reference to detail lines which may appear on a QUICK report. They are:
- o Data elements defined in the FRDS-II data base as character data ( X(nn) ) are printed left-justified in a column;
  - o Data elements defined in the FRDS-II data base as numeric data ( 9(nn) ) are printed right-justified in a column;
  - o Both character data and numeric data may be printed in an edited fashion ... zeroes suppressed, commas and decimal points inserted in quantitative values, slashes and dashes inserted in dates and other data elements to improve their readability (Refer to Subsection IV for a complete list of data elements that are printed in an edited fashion);
  - o The appearance of an asterisk or asterisks in a detail line column means that the data element that was to have appeared in that column was not valued in the data base (e.g., the system-zip code for a PWS was not reported to EPA);
  - o The appearance of a space or spaces in a detail line column means that the data element that was to have appeared in that column did not exist in the data base (e.g., the contaminant in violation was to have been

printed, but a violation did not exist for the PWS);

- and -

- o The appearance of a ditto mark in a detail line column means that the data element's value is identical to that which appears on the previous line and that the value is derived from the same data base record as the value on the previous line.

4. Each QUICK report has one or two lines of footing information on each detail page printed. These footing lines follow a single blank line and are centered on the output report based on the maximum number of characters per line specified by the user. The lines contain the SYSTEM 2000 "LOCATE" statement as formulated by the FRDS-II / Interactive "A", "E", or "X" function. In other words, the "LOCATE" statement designates the subset of data that is represented on the report.

If the number of characters in the "LOCATE" statement consumes more space than exists on two consecutive print lines (as defined by the maximum number of characters per line X 2), only that number of characters which will fit on the two lines will be printed (i.e., the excess characters will be truncated).

5. Each QUICK report that is produced when any totaling option is in effect has a grand total page produced as the final page of the report. Further, if pagination was requested, at least

one sub-total will be produced. There is a sub-total produced for each change in value of the pagination data element's value.

Either one or two lines are produced for a total ... two if both count and sum totaling are in effect, one otherwise.

A total line is identified by "Cnt" for the Count Total or "Sum" for the Sum Total appearing in the right hand margin.

6. If the user chooses to print the QUICK report on a high-speed printer, a "General Information Report" page or pages is produced. A report displayed on the user's terminal has this section of the report produced only at the user's request.

The "General Information Report" page or pages of the report is self-explanatory with three exceptions:

- o For data elements that have been printed, used for pagination, and/or used to order the QUICK report, the first twenty positions of the data element name are printed or displayed (i.e., positions 21 - 30 of the data element name are truncated).
- o For data elements that have been printed, the letter which appears beneath the headings "Cnt" and "Sum" means:

"Y" means this type of total has been produced for  
this data element

"N" means this type of total has not been produced for

this data element

- o For data elements that have been printed, used for pagination, and/or used to order the QUICK report, the number which appears beneath the heading "Length" means:

The number of characters of this data element's code value description which have been printed, used in pagination, or used to order the QUICK report

- or -

The number of left-most characters of data elements which contain textual data that have been printed

If the user chose to print the QUICK report on a high-speed printer, interrupted the report generation before its logical conclusion, and proceeded to print what was generated prior to the report's interruption, the standard footing lines for the last page are replaced with the text, "Report generation cancelled" and the remainder of the report is absent.

\*\*\*\*\*  
 \* Subsection IV. Data Elements that are displayed in an edited \*  
 \* fashion \*  
 \*\*\*\*\*

1. The following data elements are listed with leading zeros suppressed and commas inserted, as needed. Example: A population served of 00001250 would be listed as 1,250.

C117	PWS-RETAIL-POP-SERVED
C147	PWS-SERVICE-CONNECTIONS
C1111	VIO-COMP-PERIOD-MONTHS
C1127	VIO-SAMPLES-REQUIRED
C1129	VIO-SAMPLES-TAKEN
C1139	VIO-ACTUAL-DURATION-MONTHS
C1353	NCP-WINDOW-MONTHS
C1359	NCP-MCL-VIOLATIONS
C1361	NCP-MCL-DURATION
C1363	NCP-MON-VIOLATIONS
C1365	NCP-MON-DURATION
C1367	NCP-ENF-ACTIONS
C3029	VE-ALT-MON-FREQ

2. The following data element is listed with leading zeros suppressed and commas inserted, as needed. Example: A river reach mile of 0123.40 would be listed as 123.40

C431	PWS-SE-REACH-MILES
------	--------------------

3. The following data elements are listed with leading zeros suppressed, as needed. Example: An analysis result of 0001234.5670000 would be listed as 1234.5670000

C1123	VIO-ANALYSIS-RESULT
C1125	VIO-MCL-VIOLATED
C3013	VE-MOD-MCL
C4007	SDD-QUANTITY

4. The following data elements are listed with leading zeros suppressed, as needed, followed by a blank and percent symbol. Example: A surface percentage of 035 would be listed as 35 %

C121	PWS-PCT-SURFACE
C123	PWS-PCT-GROUND
C125	PWS-PCT-PUR-SURFACE
C127	PWS-PCT-PUR-GROUND

5. The following data elements are listed with a slash inserted between the year and the month. Example: A system begin date of 8906 would be listed as 89/06

C111	PWS-SYSTEM-BEGIN-YYMM
C113	PWS-DEACT-YYMM
C1351	NCP-WINDOW-BEGIN-YYMM

6. The following data elements are listed with a slash inserted between the month and the day. Example: A season begin date of 0315 would be listed as 03/15

C159	PWS-SEASON-BEGIN-MMDD
C161	PWS-SEASON-END-MMDD

7. The following data elements are listed with slashes inserted between the month and day, and day and year. Example: A last update date of 061889 would be listed as 06/18/89.

C7	ST-ANY-DATA-LAST-UPDATE
----	-------------------------

C9	ST-INV-LAST-UPDATE
C13	ST-VIO-LAST-UPDATE
C15	ST-ENF-LAST-UPDATE
C17	ST-VE-LAST-UPDATE
C167	PWS-INV-LAST-UPDATE
C168	PWS-INSERT-DATE
C169	PWS-ANY-DATA-LAST-UPDATE
C703	PWS-VISIT-DATE
C903	PWS-HIST-CHANGE-DATE
C1107	VIO-COMP-PERIOD-BEGIN-DATE
C1109	VIO-COMP-PERIOD-END-DATE
C1115	VIO-AWARE-DATE
C1117	VIO-INSERT-DATE
C1133	VIO-LAST-UPDATE
C1141	VIO-RESOLVED-DATE
C1183	VIO-LINK-ENF-DATE
C1203	ENF-ACTION-DATE
C1207	ENF-LAST-UPDATE
C1213	ENF-INSERT-DATE
C1283	ENF-LINK-RANGE-BEGIN
C1285	ENF-LINK-RANGE-END
C1287	ENF-LINK-PERIOD-BEGIN
C3007	VE-EFFECTIVE-DATE
C3009	VE-EXPIRATION-DATE
C3021	VE-LAST-UPDATE
C3033	VE-INSERT-DATE
C3105	VE-SCHED-DATE
C3107	VE-SCHED-ACCOMP-DATE
C4009	SDD-DATE
C4055	DBA-DATE

8. The following data element is listed with dashes inserted between the water resources region and subregion, sub-region and accounting unit, accounting unit and cataloging unit, and cataloging unit and river reach segment number. Example: A river reach number of 15020304007 would be listed as
- 15-02-03-04-007

C427	PWS-SE-RIVER-REACH-NUM
------	------------------------



9. The following data element is listed with dashes inserted between the degrees and minutes, and minutes and seconds.  
Example: A latitude of 384120 would be listed as 38-41-20

C415 PWS-SE-LATITUDE

10. The following data element is listed with leading zeros suppressed, as needed, and dashes inserted between the degrees and minutes, and minutes and seconds. Example: A longitude of 0885412 would be listed as 88-54-12

C417 PWS-SE-LONGITUDE

11. The following data element is listed with a USPS State code prefix and a dash inserted before a 2-character data value.  
Example: A State of California congressional district of 02 would be listed as CA-02

C507 PWS-GA-CONGRESSIONAL-DIST

12. The following data elements are listed with a USPS state code prefix and a dash inserted before a 3-character data value.  
Example: A State of Maryland county code of 017 would be listed as MD-017

C508 PWS-GA-STATE-COUNTY-CODE  
C509 PWS-GA-FIPS-COUNTY-CODE

13. The following data elements are listed with a USPS state code prefix and a dash inserted before a 5-character data value.  
Example: A State of Alaska indian reservation of 68235 would

be listed as AK-68235

C4	ST-IND-RES-CODE
C515	PWS-GA-IND-RES-CODE

14. The following data elements are listed with a dash inserted between the fiscal year and the ID. Example: A violation ID of 8912345 would be listed as 89-12345

C1101	VIO-ID
C1181	VIO-LINK-ENF-ID
C1201	ENF-ID
C1281	ENF-LINK-VIO-ID
C3001	VE-ID

15. The following data elements are listed with a dash inserted between the ZIP code and the ZIP+4, if the ZIP+4 is present. Example: A ZIP code including a ZIP+4 of 803036053 would be listed as 80303-6053

C141	PWS-SYSTEM-ZIP
C315	PWS-AD-ZIP

16. The following data element is listed with a dash inserted between the telephone exchange and number, if the area code is not present. Example: A telephone number of 5561411 would be listed as 556-1411

- or -

If the area code is present, the data element is listed with parentheses surrounding the area code, a blank

preceding the telephone exchange, and a dash inserted between the telephone exchange and number. Example: A telephone number of 7035561411 would be listed as (703) 556-1411

C143 PWS-PHONE

17. The following data element is listed with a "T." prefix.  
Example: A township of 015N would be listed as T.015N

C419 PWS-SE-TOWNSHIP

18. The following data element is listed with a "R." prefix.  
Example: A range of 125W would be listed as R.125W

C421 PWS-SE-RANGE

19. The following data element is listed with a "Sec." prefix.  
Example: A section of 25 would be listed as Sec.25

C423 PWS-SE-SECTION

20. The following data elements are listed with a left parenthesis prefix and a "1/4)" suffix. Example: A quarter section of SE would be listed as (SE1/4)

C425 PWS-SE-QTR-SECTION

C426 PWS-SE-QTR-QTR-SECTION

\*\*\*\*\*  
\* Subsection V.      Example QUICK on-line session and example QUICK      \*  
\*                      Report (Partial output produced as a result of      \*  
\*                      The example on-line session)                      \*  
\*\*\*\*\*

The example QUICK on-line session begins on the next page.. It is immediately followed by the example QUICK report.

FRDS/Interactive  
Post Retrieval Output Options Menu

=====

(B) Batch Job Submission	(L) List in Standard Screen Format
(F) Frequency Distribution	(Q) Quicklook Report Generator

(E) End Post Retrieval

--> Enter the Code which corresponds to the desired Post Retrieval  
Output Option: Q

<- - - 1

Welcome to the Quicklook Report Generator

Version: 5.0 (Initial FRDS-II version)

mm/dd/yy hh.mm.ss

--> Would you like instructions on the use of the Quicklook Report Generator?  
(Y)es or (N)o: Y

<- - - 2

This output processing option permits you to design a report according to your  
own specifications.

In particular, you will be asked to define the report formatting  
characteristics, what data elements are to be printed, how the report is to be  
paginated, how the report is to be ordered, and whether you want to view the  
report at your terminal, or have it printed on a high-speed device. Also, note  
that you may print, paginate, or sort on most any FRDS-II data element so long  
as all data elements specified belong to the same data base family.

If you do not understand any prompt issued, enter a question mark (?) or the  
word "HELP" to obtain more information.

If you want to stop the Report Generator, enter an exclamation point (!) in  
response to any prompt, or press the <ATTN> / <BREAK> key to interrupt a  
printing report.

Press the <RETURN> key when you are ready to proceed ...

--> Would you like to print a copy of the Quicklook documentation?  
(Y)es or (N)o: N

<- - - 3

--> Enter the maximum number of characters per line: 132

<- - - 4

--> Enter the maximum number of lines per page: 55

<- - - 4

--> Enter the minimum number of spaces to appear between columns: 2

<- - - 4

continued on next page

continued from previous page

```
--> What title would you like to appear on the report?
      : Pennsylvania Community-Active-Current PHSs with TTHM Violations

--> What type of column headings would you prefer?
      Data element number (#), data element (N)ame, (U)ser-defined by column,
      or (O)mit: U                                <- - - 5

--> Where should the report be generated?
      On your (T)erminal or a High-speed (P)rinter: P                                <- - - 6

--> For each data element printed, what type of totaling would you prefer?
      (C)ount, (S)um, (B)oth (i.e., count and sum), (U)ser-defined by column,
      or (N)one: U                                <- - - 7

--> Would you like a summary report only? (Y)es or (N)o: N                                <- - - 8
--> Would you prefer repeat suppression? (Y)es or (N)o: HELP                                <- - - 9

Enter a single letter which indicates your desired response to the question,
then press the <RETURN> key.

Enter the letter "Y" (Yes) if you want to suppress the printing of identical
data which comes from the same record in the data base, or the letter "N" (No)
if printing a ditto mark in place of the identical data is unacceptable.

--> Would you prefer repeat suppression? (Y)es or (N)o: Y                                <- - - 10

Now, please specify what data is to be printed in each column (from left to
right) of the report.

You may enter either a data element number or data element name in response to
the following "Print data element:" prompts. When you are finished specifying
what you want printed, enter a pound sign (#) in response to the "Print data
element:" prompt, then press the <RETURN> key.

<<< Column 01 >>> (128 characters remain on the print line)                                <- - - 11
--> Print data element: PHS-ID                                                            <- - - 12
--> Totaling choice for this data element? (C)ount or (N)one: N                            <- - - 13
--> Column Heading: System ID                                                            <- - - 14

<<< Column 02 >>> (117 characters remain on the print line)
--> Print data element: C131
--> This data element contains textual data. Would you like to print the
      (L)eftmost or (A)ll of its characters: L
--> Number of characters (leftmost) to print: 25
--> Totaling choice for this data element? (C)ount or (N)one: N
--> Column Heading: System Name

<<< Column 03 >>> (090 characters remain on the print line)
--> Print data element: C117
--> Totaling choice for this data element? (C)ount only, (S)um only,
      (B)oth (i.e., count and sum), or (N)one: B
--> Column Heading: Population
```

continued on next page

continued from previous page

<<< Column 04 >>> (075 characters remain on the print line)

--> Print data element: C1107

--> Totaling choice for this data element? (C)ount or (N)one: N

--> Column Heading: Viol. Date

<<< Column 05 >>> (063 characters remain on the print line)

--> Print data element: C1105

--> This data element contains code values. Would you like to print the  
(C)ode values or their associated (D)escriptions: C

--> Totaling choice for this data element? (C)ount or (N)one: N

--> Column Heading: Type

<<< Column 06 >>> (057 characters remain on the print line)

--> Print data element: VIO-CONTAMINANT

--> This data element contains code values. Would you like to print the  
(C)ode values or their associated (D)escriptions: D

--> Number of characters (leftmost) of the description to print: 25

--> Totaling choice for this data element? (C)ount or (N)one: C

--> Column Heading: Contaminant

<<< Column 07 >>> (030 characters remain on the print line)

--> Print data element: C1205

The data element entered does not reside in the same data base family as  
previously entered data elements

<- - - 15

<<< Column 07 >>> (030 characters remain on the print line)

--> Print data element: C1185

--> This data element contains code values. Would you like to print the  
(C)ode values or their associated (D)escriptions: D

--> Number of characters (leftmost) of the description to print: 30

--> Totaling choice for this data element? (C)ount or (N)one: C

--> Column Heading: Action Taken

<- - - 16

Insufficient space remains on the print line for you to enter additional data  
elements to print ...

Your report's print definition is complete ...

<- - - 17

--> Should the report have a new page started for each change in value of  
a particular data element? (Y)es or (N)o: ?

<- - - 18

Enter a single letter which indicates your desired response to the question,  
then press the <RETURN> key.

Enter the letter "Y" (Yes) if you want to start a new page when the value  
associated with a particular data element changes, or the letter "N" (No) if  
you are not interested in this feature.

continued on next page

continued from previous page

```
--> Should the report have a new page started for each change in value of
    a particular data element? (Y)es or (N)o: Y
--> Paginate data element: C119
--> This data element contains code values. Would you like to paginate on
    the (C)ode values or their associated (D)escriptions: D
--> Number of characters (leftmost) of the description on which to
    paginate: 40
```

< - - 19

The data element you chose will be used as the initial data element on which your report will be sorted.

Therefore, you must choose the order in which it will be sequenced (i.e., ascending or descending).

```
--> (A)scending or (D)escending order: A
```

< - - 20

```
--> Would you like your report to be sorted on anything other than the data
    element on which your report will be paginated? (Y)es or (N)o: Y
```

Specify the order in which you want your report to be sorted.

This is accomplished by entering either a data element number or data element name in response to the following "Sort data element:" prompts. You should enter the most important data element on which to sort first, the next most important data element next, and so on.

When you are finished specifying the desired report sequence, enter a pound sign (#) in response to the "Sort data element:" prompt, then press the <RETURN> key.

```
<<< Sort # 02 >>>
```

```
--> Sort data element: C101
```

< - - 21

```
--> (A)scending or (D)escending order: A
```

```
<<< Sort # 03 >>>
```

```
--> Sort data element: C1107
```

```
--> (A)scending or (D)escending order: A
```

```
<<< Sort # 04 >>>
```

```
--> Sort data element: VIO-CONTAMINANT
```

```
--> This data element contains code values. Would you like to sort on the
    (C)ode values or their associated (D)escriptions: D
```

```
--> Number of characters (leftmost) of the description on which to sort: 40
```

```
--> (A)scending or (D)escending order: A
```

```
<<< Sort # 05 >>>
```

```
--> Sort data element: VIO-TYPE
```

```
--> This data element contains code values. Would you like to sort on the
    (C)ode values or their associated (D)escriptions: C
```

```
--> (A)scending or (D)escending order: A
```

```
<<< Sort # 06 >>>
```

```
--> Sort data element: #
```

< - - 22

continued on next page



continued from previous page

--> Please confirm ... Are you finished entering data elements on which to  
sort? (Y)es or (N)o: Y

<- - - 23

Your report's sort definition is complete ...

Your report is now being sorted ...

Please do not interrupt !!!

Sort successfully completed ...

Your report is now being generated ...

To interrupt, press the <BREAK> / <ATTN> key

Press the <RETURN> key when you are ready to proceed ...

Report File Disposition - (K)eep for later printing or (D)elate:

Now:

--> D

<- - - 24

Your current Job parameters are:

FIMAS ID: FRDSO

Destination: HOLD

Bin/Box: MKBH

Estimated Time: Short

Priority: 4

Printer Type: Destination

Report File Disposition: Delete

Copies of Report: 01

--> Are these parameters correct? (Y)es or (N)o? Y

<- - - 25

Job 6801 Submitted ...

Report generation successfully completed ...

--> Would you like to re-generate the report just produced?  
(Y)es or (N)o: N

<- - - 26

--> Would you like to produce another Quicklook report? (Y)es or (N)o: N <- - - 27

Exiting the FRDS Quicklook Report Generator ...

continued on next page

continued from previous page

Note key ... as referenced on previous pages

- 1<- - - Option 'Q' is chosen from the Post Retrieval Output Options Menu.
- 2<- - - User requests that Quicklook instructions be displayed.
- 3<- - - A printed copy of the Quicklook documentation is available at the user's discretion.
- 4<- - - The user specifies the physical size and spacing of the report to be generated by Quicklook.
- 5<- - - The user opts to specify his/her own column headings.
- 6<- - - The Quicklook report will be printed on the high speed printer.
- 7<- - - User also opts to determine his/her own totaling controls.
- 8<- - - A "detailed" report is requested.
- 9<- - - User requests HELP in explaining "repeat suppression."
- 10<- - - Repeat suppression is chosen by the user.
- 11<- - - Quicklook automatically calculates remaining line space available.
- 12<- - - User specifies the data element to print in column 1.
- 13<- - - User specifies the totaling feature(s) desired.
- 14<- - - User specifies his/her own column heading.
- 15<- - - User is reminded of the "same family" restriction of Quicklook.
- 16<- - - Descriptions of coded values are chosen to be presented instead of the codes themselves.
- 17<- - - The Print definition phase is automatically concluded when remaining columns are exhausted.
- 18<- - - Help and "?" are synonymous.
- 19<- - - Page control breaks on C119 (i.e., primary source code) is chosen.
- 20<- - - The report will be sorted in ascending primary source sequence.
- 21<- - - Secondary sort fields (S02 - S05) are specified.
- 22<- - - User notifies Quicklook that all sort specifications are completed.
- 23<- - - Confirms that all sort specifications have been completed.
- 24<- - - User tells Quicklook to delete report file after it is printed.
- 25<- - - The user verifies that the report routing information is correct.
- 26<- - - The user opts not to have this report regenerated.
- 27<- - - Quicklook is notified that this report generation session is completed.

## General Information Report

Maximum Characters/Line: 132  
 Maximum Lines/Page: 58  
 Minimum Inter Column Spaces: 02  
 Report ID: 891115-101323

## Report Title:

Pennsylvania Community-Active-Current PMSs with TTHM Violations

Column Headings: User-Defined  
 Summary Report Only: No  
 PMSs are Ranked: No

Printing:	Length	Cnt.	Sum
PMS-ID		N	N
PMS-SYSTEM-NAME	25	N	N
PMS-RETAIL-POP-SERVE		Y	Y
VIO-COMP-PERIOD-BEGI		N	N
VIO-TYPE		N	N
VIO-CONTAMINANT	25	Y	N
VIO-LINK-FOLLOW-UP-A	30	Y	N

Paginating on: Length  
 PMS-PRIMARY-SOURCE 40

Sorting on:	Length	Order
PMS-PRIMARY-SOURCE	40	Ascending
PMS-ID		Ascending
VIO-COMP-PERIOD-BEGI		Ascending
VIO-CONTAMINANT	40	Ascending
VIO-TYPE		Ascending

## Symbols used within columns:

Blank = When a blank appears in a column, this implies that the record in the data base from which the data is derived does not exist.

Example: You requested that a V/E date element be printed, but no V/E existed for the PMS.

\* = When an (\*) appears in a column, this implies that the record in the data base from which the data is derived exists, but the individual data element is not valued.

Example: You requested that the MCL violated be printed, but the

FRDS-II Quick Report Generator

Date: 11/15/89

General Information Report

Symbols used within columns:  
violation displayed is  
a sampling violation.

" = When an (") appears in a column, this implies that the value which would normally appear is of the same value, and is derived from the same record in the data base, as a prior line's data (e.g., ditto).

Complete Locate Statement:  
LOC C100 WH (C3 EQ PA) AND (C103 EQ 2950) AND (NK C103 EQ CAC):

Please note:

Since this report has been paginated, it is possible that the sum of any of the individual sub-totals may not equal the figures depicted in the grand totals.

Date: 11/15/89

FRDS-II Quick Report Generator

Page: 1

Pennsylvania Community-Active-Current PMSs with TTHM Violations  
Order: C0119/A C0101/A C1107/A C1103/A C1105/A  
For: C0119 = Groundwater, Non-purchased

System ID	System Name	Population	Viol. Date	Type	Contaminant	Action Taken
PA1090024	MIDDLETOWN TWP-LANGHORNE	14,550	06/24/80	03	Arsenic	Public Notification Received f
"	"	"	06/24/80	03	Barium	Public Notification Received f
"	"	"	06/24/80	03	BHC-gams (Lindane)	Public Notification Received f
"	"	"	06/24/80	03	Cadmium	Public Notification Received f
"	"	"	06/24/80	03	Chromium	Public Notification Received f
"	"	"	06/24/80	03	Endrin	Public Notification Received f
"	"	"	06/24/80	03	Fluoride	Public Notification Received f
"	"	"	06/24/80	03	Lead	Public Notification Received f
"	"	"	06/24/80	03	Mercury	Public Notification Received f
"	"	"	06/24/80	03	Methoxychlor	Public Notification Received f
"	"	"	06/24/80	03	Nitrate	Public Notification Received f
"	"	"	06/24/80	03	Selenium	Public Notification Received f
"	"	"	06/24/80	03	Silver	Public Notification Received f
"	"	"	06/24/80	03	Toxaphene	Public Notification Received f
"	"	"	06/24/80	03	2,4-D	Public Notification Received f
"	"	"	06/24/80	03	2,4,5-TP Silvex	Public Notification Received f
"	"	"	04/01/81	03	Coliform	Public Notification Requested
"	"	"	05/01/81	03	Coliform	Public Notification Requested
"	"	"	06/01/81	03	Coliform	Public Notification Requested
"	"	"	12/01/81	05	****	Notice of Violation (by EPA)
"	"	"	01/01/82	05	****	Notice of Violation (by EPA)
"	"	"	02/01/82	05	****	Unresolved
"	"	"	04/01/82	05	****	Notice of Violation (by EPA)
"	"	"	05/01/82	05	****	Notice of Violation (by EPA)
"	"	"	06/24/82	03	Arsenic	Compliance Achieved
"	"	"	06/24/82	03	Barium	Compliance Achieved
"	"	"	06/24/82	03	BHC-gams (Lindane)	Compliance Achieved
"	"	"	06/24/82	03	Cadmium	Compliance Achieved
"	"	"	06/24/82	03	Chromium	Compliance Achieved
"	"	"	06/24/82	03	Endrin	Compliance Achieved
"	"	"	06/24/82	03	Fluoride	Compliance Achieved
"	"	"	06/24/82	03	Lead	Compliance Achieved
"	"	"	06/24/82	03	Mercury	Compliance Achieved
"	"	"	06/24/82	03	Methoxychlor	Compliance Achieved
"	"	"	06/24/82	03	Nitrate	Compliance Achieved
"	"	"	06/24/82	03	Selenium	Compliance Achieved
"	"	"	06/24/82	03	Silver	Compliance Achieved
"	"	"	06/24/82	03	Toxaphene	Compliance Achieved
"	"	"	06/24/82	03	2,4-D	Compliance Achieved
"	"	"	06/24/82	03	2,4,5-TP Silvex	Compliance Achieved
"	"	"	07/01/82	05	****	Notice of Violation (by EPA)
"	"	"	10/01/84	03	TTHa	Technical Assistance Visit or
"	"	"	04/01/85	03	TTHa	Technical Assistance Visit or
"	"	"	05/01/85	03	Coliform	Technical Assistance Visit or
"	"	"	05/01/86	03	Coliform	Technical Assistance Visit or
"	"	"	06/01/86	03	Coliform	Technical Assistance Visit or

LOC C100 WH (C3 EQ PA) AND (C1103 EQ 2950) AND (NK C103 EQ CAC):

FRDS-II Quick Report Generator

Date: 11/15/89

Pennsylvania Community-Active-Current PMAs with TTHM Violations  
Order: C0119/A C0101/A C1107/A C1105/A  
For: C0119 = Groundwater, Non-purchased

System ID	System Name	Population	Viol. Date	Type	Contaminant	Action Taken
PA1090024	MIDDLETON TWP-LAUGHORNE	14,550	06/01/87	03	TTHM	Technical Assistance Visit or
"	"	"	07/01/87	03	Coliform	Technical Assistance Visit or
"	"	"	07/01/88	03	Benzene	Violation Notice
"	"	"	07/01/88	03	Carbon Tetrachloride	Violation Notice
"	"	"	07/01/88	03	P-Dichlorobenzene	Violation Notice
"	"	"	07/01/88	03	Trichloroethylene	Violation Notice
"	"	"	07/01/88	03	Vinyl Chloride	Violation Notice
"	"	"	07/01/88	03	1,1-Dichloroethylene	Violation Notice
"	"	"	07/01/88	03	1,1,1-Trichloroethane	Violation Notice
"	"	"	07/01/88	03	1,2-Dichloroethane	Violation Notice
"	"	"	04/01/89	03	TTHM	Violation Notice
PA1090043	NEWTON ARTESIAN WTR CO	20,650	07/01/82	05	MMH	Violation Notice
"	"	"	03/01/86	04	Coliform	Compliance Achieved
"	"	"	04/01/89	03	TTHM	Compliance Achieved
PA1090063	UPPER SOUTHAMPTON TWP MUN	12,400	06/24/82	03	Arsenic	Compliance Achieved
"	"	"	06/24/82	03	Barium	Compliance Achieved
"	"	"	06/24/82	03	BHC-gamma (Lindane)	Compliance Achieved
"	"	"	06/24/82	03	Cadmium	Compliance Achieved
"	"	"	06/24/82	03	Chromium	Compliance Achieved
"	"	"	06/24/82	03	Endrin	Compliance Achieved
"	"	"	06/24/82	03	Fluoride	Compliance Achieved
"	"	"	06/24/82	03	Lead	Compliance Achieved
"	"	"	06/24/82	03	Mercury	Compliance Achieved
"	"	"	06/24/82	03	Methoxychlor	Compliance Achieved
"	"	"	06/24/82	03	Nitrate	Compliance Achieved
"	"	"	06/24/82	03	Selenium	Compliance Achieved
"	"	"	06/24/82	03	Silver	Compliance Achieved
"	"	"	06/24/82	03	Toxaphene	Compliance Achieved
"	"	"	06/24/82	03	2,4-D	Compliance Achieved
"	"	"	06/24/82	03	2,4,5-TP Silvex	Compliance Achieved
"	"	"	04/01/87	03	TTHM	Technical Assistance Visit or
"	"	"	07/01/87	03	TTHM	Technical Assistance Visit or
PA1090082	QUAKERTOWN BORO WTR DEPT	10,750	08/01/76	03	Gross Alpha, Excl. Radon &	Compliance Achieved
"	"	"	06/24/82	03	Arsenic	Compliance Achieved
"	"	"	06/24/82	03	Barium	Compliance Achieved
"	"	"	06/24/82	03	BHC-gamma (Lindane)	Compliance Achieved
"	"	"	06/24/82	03	Cadmium	Compliance Achieved
"	"	"	06/24/82	03	Chromium	Compliance Achieved
"	"	"	06/24/82	03	Endrin	Compliance Achieved
"	"	"	06/24/82	03	Fluoride	Compliance Achieved
"	"	"	06/24/82	03	Lead	Compliance Achieved

FRDS-II Quick Report Generator									
Date: 11/15/89		Pennsylvania Community-Active-Current PMSs with TTHM Violations							
		Order: C0119/A C0101/A C1107/A C1103/A C1105/A							
		For: C0119 = Surface, Purchased							
System ID	System Name	Population	Viol. Date	Type	Contaminant	Action Taken			
PA5020061	HAMPTON TOWNSHIP MUN AUTH	16,509	01/01/89	03	TTHM				
"	"	"	01/01/89	03	Vinyl Chloride				
"	"	"	01/01/89	03	1,1-Dichloroethylene				
"	"	"	01/01/89	03	1,1,1-Trichloroethane				
"	"	"	01/01/89	03	1,2-Dichloroethane				
"	"	"	04/01/89	03	Benzene				
"	"	"	04/01/89	03	Carbon Tetrachloride				
"	"	"	04/01/89	03	P-Dichlorobenzene				
"	"	"	04/01/89	03	Trichloroethylene				
"	"	"	04/01/89	03	TTHM				
"	"	"	04/01/89	03	Vinyl Chloride				
"	"	"	04/01/89	03	1,1-Dichloroethylene				
"	"	"	04/01/89	03	1,1,1-Trichloroethane				
"	"	"	04/01/89	03	1,2-Dichloroethane				
"	"	12	06/01/89	02	Coliform				
							41		Cnt
								185	Sum
							253,337		

LOC C100 WH (C3 EQ PA) AND (C1103 EQ 2950) AND (NK C103 EQ CAC):

FRDS-II Quick Report Generator  
 Pennsylvania Community-Active-Current PHSs with THM Violations  
 Order: C0119/A C0101/A C1107/A C1103/A C1105/A  
 For: C0119 = All D.E. Values

Date: 11/15/89

System ID .....System Name..... .Population.. Viol. Date Type .....Contaminant..... .Action Taken.....

Grand Totals

99	2,559	1,492	Cnt
2,974,513			Sum

Please note:  
 Since this report has been  
 paginated, it is possible that  
 the sum of any of the individual  
 sub-totals may not equal the  
 figures depicted in the grand  
 totals.



5.2.11 Option 'T' - Totals of PWS Information - Totals

Inventory Summary and Totals Violation

Summary Report (Not Available)

#### 5.2.12 Option 'E' - End Post-retrieval

Option 'E' of the Post-retrieval Processing Options Menu permits the user to exit the post-retrieval processing options capability and return to the prompt for a Main Menu selection.

The sample session on the next page shows how to use Option 'E'.

[illegible]

(E) End Post Retrieval

< - - - - - 1

**< - - - - - 2**

2 <- - - The user may choose a Main Menu function.



**SECTION A  
APPENDIXES**

## SECTION A - APPENDIXES

### A-1 Appendix A

The following symbols, keywords and/or keys are used throughout FRDS/Interactive. They have been included in this document as a ready reference.

#### 1. Special Symbols/Keywords/Keys

---

?	Display Help, if available
HELP	Display Help, if available
!	Stop the world ... I wanna get off
#	I'm done ... proceed with the next step
BREAK	Interrupt what is going on ( ASCII line-by-line devices )
ATTN	Interrupt what is going on ( 3270 full-screen devices )
RETURN	Press after user response ( ASCII line-by-line devices )
ENTER	Press after user response ( 3270 full-screen devices )

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2. Special keywords recognized at the FRDS/Interactive prompt which reads ... Enter Function Code, END, or MENU:
- 

END	Exit FRDS/Interactive ... return to FRDSOM CLIST menu
QUIT	Exit FRDS/Interactive ... return to FRDSOM CLIST menu
MENU	Display Main Menu

END and QUIT are Synonymous with function code 0 ( i.e., zero )

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3. Special Symbols/Keywords recognized during the "Assisted" preparation of a Locate statement Main menu function ...
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REVIEW	Review the Locate statement constructed so far
GREATER THAN (>)	Advance to the next sub-group. If no further sub-group exists, advance to the next group question ( i.e., go forward ). If no further group exists, display the Locate statement constructed, ask if okay, execute it or submit a batch job using the constructed Locate statement.
CARET (UPPER CASE 6)	Advance to the next group ( i.e., go up ). If no further group exists, display the Locate statement constructed, ask if okay, execute it or submit a batch job using the constructed Locate statement.

SLASH . Separates multiple responses to a data base value  
(/) prompt ... ( e.g., CAC / CAH / NAC / NAH ). Multiple  
responses are OR'ed together.

COMMA . Intermediate/Advanced users only ... Separates  
(,) multiple responses to a menu prompt ... ( e.g., C103  
, C115 , C119 ). Multiple responses are AND'ed  
together.

ASTERISK Used in conjunction with a response that is a range  
(\*) (i.e., SPANS value1 \* value2, EQ value1 \* value2,  
value1 \* value2 ).

EQ NE May be used in conjunction with response to a data  
GT GE base value prompt. For example:

LT LE

SPANS .

EXISTS FAILS LT 500 / SPANS 1000\*5000 / GT 10000  
LT 500 / EQ 1000\*5000 / GT 10000  
LT 500 / 1000\*5000 / GT 10000

Cnnnn Intermediate/Advanced users only ... A data base  
record or data element number to "DIRECT" what  
prompts from that group of sub-group are to be  
issued, and, in what order.

ALL Intermediate/Advanced users only ... shortcut for  
indicating that you want to consider ALL sub-groups  
displayed or ALL data elements displayed.



NONE            Intermediate/Advanced users only ... shortcut for  
                 indicating that you want to consider NONE of the  
                 sub-groups displayed or NONE of the data elements  
                 displayed.

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4.    Special Symbols/Keywords recognized during the 'X' and 'Z'  
      (i.e., Type your own) Locate statement preparation Main  
      menu function.

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EXIT           Leave the 'X' or 'Z' function

??            Display Locate statements presently defined. If  
                 using the 'X' function, the number of records  
                 selected are displayed also.

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