NonPoint Source Management System

NPSMS Version 3.01

User's Guide

June 1992

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1. INTRODUCTION

The NonPoint Source Management System (NPSMS) is a PC based software application developed to facilitate data input to the Nonpoint Source (NPS) Management File and provide reporting capabilities to support the NPS Annual Report File.

The software is used by states receiving grants under section 319 of the Clean Water Act. It is based upon requirements as described by the U.S. EPA's "Watershed Monitoring and Reporting for Section 319 National Monitoring Program Projects," August, 1991.

The NPSMS version 2.1 software is an integrated, menu-driven environment supporting both file management and annual reporting for chemical/physical data. It provided many advanced features including pop-up menus, look-up tables for data entry, configurable environment, on-screen reports, and on-line help.

The most current version of the NPSMS, version 3.01 includes many enhanced features of version 2.1. The most significant enhancement is the ability to track biological and habitat data as well as the chemical/physical data that version 2.1 tracked. Other features include improved user interface, pop-up note fields, automated transfer of Annual Reports, and graphic capabilities.

This document is a general guide on how to use the NPSMS version 3.01. For information and guidance on the actual data requirements, consult the document, "Watershed Monitoring and Reporting for Section 319 National Monitoring Program Projects," August, 1991.

2. STARTING NPSMS

2.1 INSTALLATION

The NPSMS software requires the following hardware to run:

> AT class computer (286 or better)
> 640 KB RAM
> Hard Disk
> Floppy Drive (high density)
> Monochrome Monitor (an EGA or VGA color monitor is needed for graphics)

Note that the NPSMS software requires approximately 2.5 megabytes of available disk space.

To install the software on your computer, follow the instructions below:

1. Insert the NPSMS Diskette in Drive A:

2. At the DOS prompt, type **A:INSTALL** and press the <ENTER> key.

    The install program will copy the NPSMS files to a directory called \NPSV3 on your C: drive.

3. After the install has completed, change directories to your root directory. Type **CD** and press the <ENTER> key. To start the NPSMS, follow the Logging On instructions below.

2.2 LOGGING ON

Once the NPSMS has been installed, the user must type **NPSMS** at the DOS prompt to start the NPSMS. A LogOn screen will be displayed, as shown in Figure 2.2-1. This screen will show the current system date and time which should be checked for accuracy as well as the last user access information.

```
 ███    ██ ██████  ███████ ███    ███ ███████
 ████   ██ ██   ██ ██      ████  ████ ██
 ██ ██  ██ ██████  ███████ ██ ████ ██ ███████
 ██  ██ ██ ██           ██ ██  ██  ██      ██
 ██   ████ ██      ███████ ██      ██ ███████

            NonPoint Source Management System
                Version 3.01 - June 1992
            U.S. ENVIRONMENTAL PROTECTION AGENCY

 DATE: 06/01/92    TIME: 10:00 am  │      LAST USER ACCESS

 Enter User ID:                    │  User ID:  NPSMS

 Enter Password:                   │  Date: 06/01/92   Time:  09:50 am
```

Figure 2.2-1   NPSMS LogOn Screen

The user must enter his user ID which can be up to eight characters and press the <ENTER> key. Then he must enter the password he established (up to eight characters) and press the <ENTER> key. Once the user enters his ID and password, the NPSMS Main Menu will be displayed.

If the user has not been assigned an ID, the generic ID is NPSMS and the password is also NPSMS. Individual user IDs can be assigned in the OPTIONS/SYSTEM TABLES/USER ID TABLE selection (see Section 9.8). Once the real ID has been assigned, the generic ID and password can be deleted.

2.3 NPSMS MAIN MENU

The Main Menu of the NPSMS is a pull-down menu structure that allows easy access to the integrated features of the software.

The figure below shows the Main Menu of the NPSMS.

```
                                                          0.00
  Management  Design  Annual  Reports  Graphics  Options  Quit │ NPSMS



                    NonPoint Source Control Branch

                          OFFICE OF WATER

                 U.S. ENVIRONMENTAL PROTECTION AGENCY




                  NONPOINT SOURCE MANAGEMENT SYSTEM
                          Version 3.01
            Press <F1> for HELP -- Alt+<F1> for Alternate HELP
```
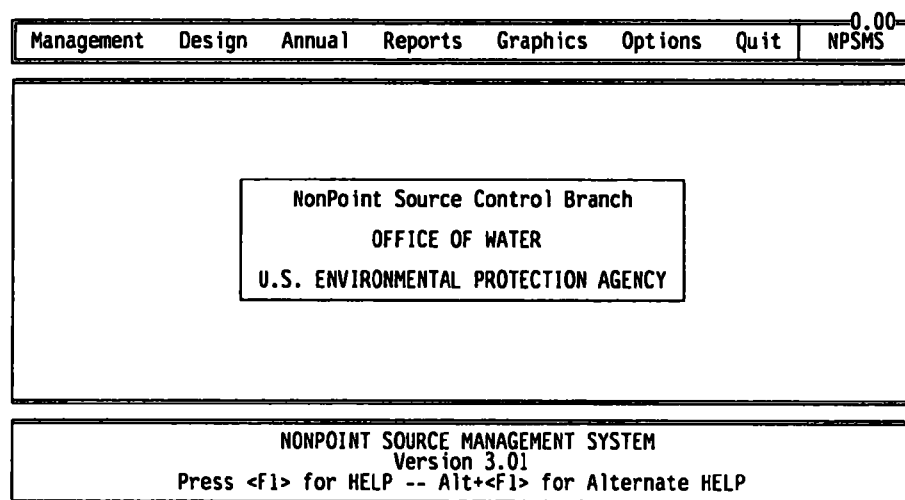
Figure 2.3-1   NPSMS Main Menu

There are seven options available from the Main Menu. These menu options will be discussed in following sections of this User's Guide, but below is a brief description of each of these options.

The MANAGEMENT menu option provides capabilities for adding, updating, deleting, and reporting on the management areas and waterbodies defined under the 319 NPS Management Program.

The DESIGN menu option contains information pertaining to the type of study that will be implemented to monitor the specified management area/waterbody.

The ANNUAL menu option provides the capabilities to maintain the annual reports that must be submitted to EPA as required under the Nonpoint Source Program.

The REPORTS menu option allows the user to generate reports. Once a report has been generated, the user may view it on the screen, print it, or save it to a text file.

The GRAPHICS menu option allows the user to generate sophisticated graphs and charts to better interpret and analyze the large volume of data entered into the NPSMS.

The OPTIONS menu option allows the user to customize the NPSMS, backup and restore data, import and export data, convert data to ASCII format, perform system maintenance, delete state information, maintain system tables, and utilize any word processor or text editor.

The QUIT menu option will close all of the NPSMS files and then return the user to the operating system (DOS).

3. USING NPSMS

3.1 KEY COMMANDS

3.1.1 GLOBAL KEYS

The following is a list of keys that are available from all screens within the NPSMS.

<ESC> - ESCAPE

The escape key is the universal way to exit the current operation. Pressing the <ESC> key will display the previous menu or screen.

<ENTER> - ACCEPT

Pressing the <ENTER> key (or the <RETURN> key) will accept highlighted data or it will execute a menu choice.

<F1> - HELP

Pressing the <F1> key will display Context Specific Help about the menu choice or data field that is currently highlighted. Note that if a selectable list is available for the highlighted data field, pressing <F1> will display this list.

<ALT> + <F1> - ALTERNATE HELP

Pressing the <ALT> key and the <F1> key will display the Alternate Help menu (See Section 3.6.2).

<HOME>

The <HOME> key moves the highlight bar to:
    the first item, if the user is in a menu,
    the first position, if the user is in a data field, or
    the first page, if the user is in a selectable list.

<END>

The <END> key moves the highlight bar to:
    the last item, if the user is in a menu,
    the last position, if the user is in a data field, or
    the last page, if the user is in a selectable list.

3.1.2 KEY COMMANDS FOR MENU SCREENS

The UP, DOWN, RIGHT, and LEFT ARROW keys of the numeric keypad may be used to move the highlight bar to the desired menu selection. Pressing the <ENTER> key will execute the command. Alternatively, the first letter of the user's menu choice may be pressed to instantly execute the command.

3.1.3 KEY COMMANDS FOR DATA ENTRY SCREENS

Below is a list of the navigational key commands for the data entry screens in the NPSMS.

The DOWN ARROW key moves the cursor to the next field.

The UP ARROW key moves the cursor to the previous field.

The <PAGE DOWN> key moves the cursor to the next record.

The <PAGE UP> key moves the cursor to the previous record.

Pressing the <CTRL> key and the <HOME> key will move the cursor to the first field on the screen.

Pressing the <CTRL> key and the <END> key will move the cursor to the last field on the screen.

Pressing <CTRL> and U will undo any change just made to the field.

Pressing <CTRL> and Y will delete all data from the cursor position to the end of the field.

Pressing <CTRL> and W will save the current data entry.

3.1.4 KEY COMMANDS FOR NOTE FIELDS

Below is a list of the navigational key commands for the note fields in the NPSMS.

The <INS> key toggles the insert mode on and off.

The <DEL> key deletes one character.

The <ENTER> key moves the cursor to the next line.

The <END> key moves the cursor to the end of the current line.

The <HOME> key moves the cursor to the beginning of the current line.

The DOWN ARROW key moves the cursor down one line.

The UP ARROW key moves the cursor up one line.

The RIGHT ARROW key moves the cursor right one character.

The LEFT ARROW key moves the cursor left one character.

Pressing the <CTRL> key and the RIGHT ARROW key will move the cursor one word to the right.

Pressing the <CTRL> key and the LEFT ARROW key will move the cursor one word to the left.

The <PAGE DOWN> key moves the cursor to the next page of the display.

The <PAGE UP> key moves the cursor to the previous page of the display.

Pressing the <CTRL> key and the <END> key will move the cursor to the end of the display.

Pressing the <CTRL> key and the <HOME> key will move the cursor to the start of the display.

Pressing <CTRL> and T will delete characters from the cursor to the end of the line.

Pressing <CTRL> and Y will delete the entire line.

Pressing <CTRL> and N will insert a new line.

The <F10> key will save the current entry.

3.2 MENUS

The NPSMS version 3.01 provides a complete menu-driven environment. This means that all functions performed by the user are done so by the simple selection of a menu option.

All of the menus within the NPSMS are operated the same way. The user can select any option by moving the highlight bar to the desired menu option and pressing the <ENTER> key, or by simply typing the first letter of the option.

3.3 DATA ENTRY SCREENS

The data entry screens (see Figure 3.3-1 for example) within the NPSMS allow the user to add, update, and delete information pertaining to the current data group selection. When the user selects a data group to add information to, to modify, or to delete, the box containing fields that belong to the data group selected will be highlighted.

```
┌─────────────────────────────────────────────────────1.04─┐
│ Add    Change    Delete    List    Notes    │ MANAGEMENT AREA │
├──────────────────────────────────────────────────────────┤
│ ┌ Management Areas for: NY────────────────────────────────┐│
│ │ ID:   NYSENECA1                                          ││
│ │ Name: SENECA RIVER DRAINAGE                              ││
│ │ Participating Agencies: DEC, VILLAGES OF WATERLOO & SENECA FALLS,USDA,SWCD ││
│ │ Project Description:                                     ││
│ │ This pretend, 64,000-acre watershed project in the northern end of Seneca ││
│ │ County drains into the north end of Cayuga Lake.  Problems in the watershed ││
│ └─────────────────────────────────────────────────────────┘│
│ ┌ Waterbodies 305(b) for: NYSENECA1 ──────────────────────┐│
│ │ ID:                    Name:                             ││
│ │ NYCAYUGA1              CAYUGA LAKE-NORTH END             ││
│ └─────────────────────────────────────────────────────────┘│
│ ┌ Uses of Waterbody: NYCAYUGA1 ───────────────────────────┐│
│ │ Use: FISH            Use Support Code (F, N, P, or T):  P││
│ └─────────────────────────────────────────────────────────┘│
│ ┌ Pollutants/Relative Contributions for: NYCAYUGA1 ───────┐│
│ │ Pollutant Name: OXYGEN CONSUMING MATERIALS (DO PROBLEMS) ││
│ │                                                          ││
│ │ --------------- Contribution From Sources (Decimal Fraction) --------------- ││
│ │ NPS: 0.40    POINT: 0.40    BACKGROUND: 0.20    Information Type: C ││
│ └─────────────────────────────────────────────────────────┘│
└──────────────────────────────────────────────────────────┘
   F1-Help   PgUp-Prev MF Area   PgDn-Next MF Area   ESC-Mgmt Area Info Menu
```

Figure 3.3-1 Data Entry Screen

The options available for the particular data entry screen will be displayed at the top of the screen. The user can select any option by moving the highlight bar to the desired option and pressing the <ENTER> key or by simply typing the first letter of the option.

Once the user selects an option, the appropriate fields will be highlighted to assist the user. The user simply types in the information necessary for each field and then presses the ENTER key to advance to the next field. Note that selectable lists may be available to aid in data entry (see Section 3.4).

The user must press the <ENTER> key at the last field to save any additions or changes to the data group.

3.4 SELECTABLE LISTS

The NPSMS software utilizes selectable lists, whenever possible, to aid in data entry and data selection. A selectable list is a list inside a window (see Figure 3.4-1) that allows the user to scroll through available items and select an item instead of typing in the data. All of the data is scrollable in the selectable lists, allowing the user to scan through many items quickly.

```
┌──────────────────────────────────────────────────────────────────────────┐
│                      CURRENT MANAGEMENT FILE STATE LIST                     │
│                                                                            │
│       State Code                 Lead Agency                   EPA Region  │
│                                                                            │
│  ▓NY▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓NY DEC ▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓2▓▓▓▓▓▓▓▓▓ │
│                                                                            │
│                                                                            │
│                                                                            │
│                                                                            │
│                                                                            │
│                                                                            │
│                                                                            │
│                                                                            │
├────────────────────────────────────────────────────────────────────────┤
│  - Move highlight bar | ESC - Exit w/o selection | <CR> - Exit w/ selection│
└────────────────────────────Top of List──────────────────────────────────┘
```

Figure 3.4-1 Selectable List

Note that the solid graphic characters on the first item in the list are there to illustrate a "highlight bar." On the actual screen display, the highlighted item appears in reverse display.

There are two types of selectable lists within the NPSMS. One type allows the user to select an item for data entry purposes. This saves time on data entry by allowing the user to simply highlight the item required and press the <ENTER> key. The appropriate data values for the highlighted item are automatically inserted into the data input fields. This type of selectable list, if available, is accessed from the <F1> key.

The other type of selectable list will appear as an option called "LIST." This selectable list provides the user with another method of viewing data in the system. The user selects an item for viewing by highlighting the item and pressing the <ENTER> key. The data for the highlighted item will automatically be displayed for the user to view.

3.5 NOTE FIELDS

The NPSMS provides note fields of no particular format that allow the user to enter text notes that may be retrieved later. A note field (see Figure 3.5-1) is a text field that is designed to contain miscellaneous comments that the user would like to save in the database.

```
                                                               ┌─1.04─┐
┌─────────────────────────────────────────────┬─────────────────────┐
│ Add    Change   Delete   List   Notes        │ MANAGEMENT AREA     │
└─────────────────────────────────────────────┴─────────────────────┘
┌ Management Areas for: NY────────────────────────────────────────────┐
│ IO:   NYSENECA1                                                      │
│ Name: SENECA RIVER DRAINAGE                                          │
│ Participating Agencies: DEC, VILLAGES OF WATERLOO & SENECA FALLS,USDA,SWCD │
├───────────────────────────Project Description──────────────────────┤
│ This pretend, 64,000-acre watershed project in the northern end of Seneca │
│ County drains into the north end of Cayuga Lake.  Problems in the watershed │
│ include accelerated eutrophication of the shallow waters in northern Cayuga │
│ Lake which drains into Montezuma National Wildlife Refuge.  Sources in this │
│ fictitious watershed project include small dairy farms, WWTPs from Seneca │
│ Falls and Waterloo, failed septic systems in residences on the shores of │
│ Cayuga Lake, and urban runoff.  Primary pollutants are phosphorus and │
│ B.O.D..  Project plans include nutrient management, animal waste │
│ management, and septic system upgrades.                             │
└───────────────────────F10-Save      ESC-Cancel─────────────────────┘
┌ Pollutants/Relative Contributions for: NYCAYUGA1 ──────────────────┐
│ Pollutant Name: OXYGEN CONSUMING MATERIALS (DO PROBLEMS)           │
│                                                                    │
│ ─────────────── Contribution From Sources (Decimal Fraction) ───────────────│
│ NPS: 0.40      POINT: 0.40     BACKGROUND: 0.20    Information Type: C │
└────────────────────────────────────────────────────────────────────┘
      F1-Help   PgUp-Prev MF Area   PgDn-Next MF Area   ESC-Mgmt Area Info Menu
```

Figure 3.5-1 Notes Field

The note field, when available, will appear on a menu as an option called "NOTES." To access the notes field, the user must highlight the NOTES option and press the <ENTER> key or type **N**.

3.6 ON-LINE HELP

There are two types of on-line help available in the NPSMS to assist the user, Context Specific Help and Alternate Help. The following is a description of the two different types of on-line help and the keys necessary to access them.

3.6.1 CONTEXT SPECIFIC HELP

Context Specific Help explains what data is expected in a highlighted data field or what a specific menu option does. Context Help is available on every data entry field, menu option, and message to remind the user or to give a better understanding of what is expected or what is currently happening in the NPSMS.
Context Specific Help is available by pressing <F1> and can be exited by pressing the <ESC> key.

3.6.2 ALTERNATE HELP

Alternate Help gives the user a general summary of how to use the NPSMS. Alternate Help is divided into six options that are displayed in a menu (see Figure 3.6.2-1) to allow the user to select only those options desired.

```
┌──────────────────────ALTERNATE HELP────────────────────┐
│                     ┌──────────┐                        │
│                     │ NPSMS    │                        │
│                     │ Help     │                        │
│                     │ Keys     │                        │
│                     │ Commands │                        │
│                     │ Guidance │                        │
│                     │ How to...│                        │
│                     │ Exit Help│                        │
│                     └──────────┘                        │
│              Overview of the NPSMS Software             │
└─────────────────────────────────────────────────────────┘
```

Figure 3.6.2-1 Alternate Help Menu

The following is a description of the options available in Alternate Help.

The NPSMS selection provides an overview of the NPSMS software and explains the organization of the system.

The KEYS selection shows all of the available keys used in the NPSMS and explains how to navigate in the menus and data entry screens. It also lists special function keys which make using the NPSMS even easier.

The COMMANDS selection explains the main options (Main Menu choices) available in the NPSMS. Although each menu option is explained in detail by pressing <F1>, the COMMANDS selection briefly summarizes them.

The GUIDANCE selection displays the "Watershed Monitoring and Reporting for Section 319 National Monitoring Program Projects" guide. The user has the ability of scrolling through this document on-line.

The HOW TO selection explains how to do a specific task in the NPSMS when the user knows what the task is but is not sure how to do it. It will also refer the user to specific help screens for detailed information about the task.

The EXIT HELP selection exits alternate help. The user can also exit by pressing the <ESC> key or by typing E.

Alternate help is available from anywhere in the NPSMS by pressing the <ALT> and <F1> keys and can be exited by pressing <ESC> or (E)xit.

3.7 QUITTING

Quitting the NPSMS will close all of the NPSMS files and then return the user to the operating system (DOS).

To exit the NPSMS, the user must be on the main menu. If the user is not on the main menu, the user must press the <ESC> key until the main menu is displayed. At the main menu, the user can either select the QUIT option, by highlighting QUIT and pressing the <ENTER> key, or by typing Q.

4. MANAGEMENT FILE

The Management File provides capabilities to maintain the management area and waterbodies defined under the 319 NPS Management Program. Management areas and waterbodies may be added, changed, and deleted in the Management File.

The Management File section allows the user to enter information describing the "problem" with the management area/waterbody including the designated uses and contributing pollutants. Additionally, the best management practice (BM) information is also entered in the Management File. The BM describes the "Plan" that will be implemented to control the problem, the implementation goal, and the funding available for the project.

Selecting MANAGEMENT from the Main Menu (Screen 0.00) will display Screen 1.01 (see Figure 4-1). This screen allows the user to select or add the state and lead agency for viewing or reporting.

```
                                                        ──1.01──
 Management   Design   Annual   Reports   Graphics   Options   Quit │ NPSMS
                                  .

 ┌──────────────────────────────────────────────────────────────┐
 │                    STATE AND LEAD AGENCY                       │
 │                                                                │
 │        State (FIPS Code):     NY                               │
 │        Lead Agency:           DEC                              │
 │        EPA Region:            2                                │
 │                                                                │
 │                                                                │
 │  (L)ist States   (A)dd State   PGUP-Prev   PGDN-Next   ┘-Accept   ESC-Exit │
 └──────────────────────────────────────────────────────────────┘

 ┌──────────────────────────────────────────────────────────────┐
 │              NONPOINT SOURCE MANAGEMENT SYSTEM                 │
 │                      Version 3.01                             │
 │        Press <F1> for HELP -- Alt+<F1> for Alternate HELP     │
 └──────────────────────────────────────────────────────────────┘
```

Figure 4-1   Screen 1.01

The user may use the <PAGE UP> and <PAGE DOWN> keys to display the previous or next state, or select the LIST option to view all of the states in a selectable list. Only the states entered into the NPSMS Management File are displayed.

To add a state and lead agency to the Management File, the user must type A. A selectable list of "Standard State Codes" is available to assist the user when adding states. The user must press the <F1> key when the STATE field is highlighted to access this list.

Once the user selects the state and lead agency, Screen 1.02 (see Figure 4-2) will be displayed. This screen shows the management area ID and name for the state and lead agency selected.

```
┌─────────────────────────────────────────────────────────────1.02─┐
│ Mgmt Area Info    BMPs & Proj Funding      Exit    │ MANAGEMENT FILE │
└─────────────────────────────────────────────────────────────────┘
```

```
┌─────────────────────────────────────────────────────────────────┐
│         CURRENT NPS STATE, LEAD AGENCY, AND MANAGEMENT AREA       │
├───────────────────────────────────────────────────────────────────┤
│ State: NY      NPS Lead Agency: DEC                 EPA Region: 2 │
├──────────────────────────────┬───────────────────────────────────┤
│ NPS Management Area ID:       │ Management Area Name:             │
│   NYSENECA1                   │   SENECA RIVER DRAINAGE           │
├──────────────────────────────┴───────────────────────────────────┤
│                                                                   │
│       PgUp - Previous NPS Mgmt Area      PgDn - Next NPS Mgmt Area │
│                                                                   │
└───────────────────────────────────────────────────────────────────┘
```

```
┌───────────────────────────────────────────────────────────────────┐
│         NONPOINT SOURCE MANAGEMENT SYSTEM - MANAGEMENT FILE        │
│                          Version 3.01                             │
│         Press <F1> for HELP -- Alt+<F1> for Alternate HELP        │
└───────────────────────────────────────────────────────────────────┘
```

Figure 4-2   Screen 1.02

To display the previous or next management area for the state and lead agency previously selected, the user must use the <PAGE UP> and <PAGE DOWN> keys. The user must also select either MGMT AREA INFO to view, add, change, or delete management area information or BMPs & FUNDING for the best management practices (BMPs) and funding information for the project.

4.1 MANAGEMENT AREA INFORMATION

Selecting MGMT AREA INFO from Screen 1.02 will generate a menu, Screen 1.03 (see Figure 4.1-1), for the management area information. The user may view, add, change, or delete information from this menu for the state previously selected.

```
┌──────────────────────────────────────────────────────────────1.03─┐
│ Mgmt Area Desc   Waterbody   Uses for WB   Pollutants │ MGMT AREA INFO │
├───────────────────────────────────────────────────────────────────┤
│ ┌ Management Areas for: NY─────────────────────────────────────┐ │
│ │ ID:   NYSENECA1                                               │ │
│ │ Name: SENECA RIVER DRAINAGE                                   │ │
│ │ Participating Agencies: DEC, VILLAGES OF WATERLOO & SENECA FALLS,USDA,SWCD │ │
│ │ Project Description:                                          │ │
│ │ This pretend, 64,000-acre watershed project in the northern end of Seneca │ │
│ │ County drains into the north end of Cayuga Lake.  Problems in the watershed │ │
│ └───────────────────────────────────────────────────────────────┘ │
│ ┌ Waterbodies 305(b) for: NYSENECA1 ──────────────────────────┐ │
│ │ ID:                    Name:                                 │ │
│ │ NYCAYUGA1              CAYUGA LAKE-NORTH END                 │ │
│ └───────────────────────────────────────────────────────────────┘ │
│ ┌ Uses of Waterbody: NYCAYUGA1 ───────────────────────────────┐ │
│ │ Use: FISH            Use Support Code (F, N, P, or T):  P     │ │
│ └───────────────────────────────────────────────────────────────┘ │
│ ┌ Pollutants/Relative Contributions for: NYCAYUGA1 ──────────┐ │
│ │ Pollutant Name: OXYGEN CONSUMING MATERIALS (DO PROBLEMS)     │ │
│ │                                                              │ │
│ │ ─────────────── Contribution From Sources (Decimal Fraction) ─────────────── │ │
│ │ NPS: 0.40    POINT: 0.40    BACKGROUND: 0.20    Information Type: C │ │
│ └───────────────────────────────────────────────────────────────┘ │
└───────────────────────────────────────────────────────────────────┘
  F1-Help   F5-View Complete Management Area   ESC-Return to the Previous Menu
```

Figure 4.1-1   Screen 1.03

The <F5> key may be used to generate a "view" of the entire management area. This includes an organized list of all waterbodies, uses, pollutants, BMP information, and project funding. The Management Area View is displayed on the screen and may also be printed using the REPORTS option on the Main Menu.

4.1.1 MANAGEMENT AREA DESCRIPTION

Selecting MGMT AREA DESC from the Management Area Information Menu (Screen 1.03) will display Screen 1.04 (see Figure 4.1.1-1). This screen allows the user to add, change, delete, or view the management area.

```
┌─────────────────────────────────────────────────────────────────1.04──┐
│ Add    Change   Delete   List   Notes        │ MANAGEMENT AREA        │
├──────────────────────────────────────────────┴───────────────────────┤
│ ┌ Management Areas for: NY──────────────────────────────────────────┐ │
│ │ ID:   NYSENECA1                                                    │ │
│ │ Name: SENECA RIVER DRAINAGE                                        │ │
│ │ Participating Agencies: DEC, VILLAGES OF WATERLOO & SENECA FALLS,USDA,SWCD│
│ │ Project Description:                                               │ │
│ │ This pretend, 64,000-acre watershed project in the northern end of Seneca│
│ │ County drains into the north end of Cayuga Lake.  Problems in the watershed│
│ └───────────────────────────────────────────────────────────────────┘ │
│ ┌ Waterbodies 305(b) for: NYSENECA1 ────────────────────────────────┐ │
│ │ ID:                      Name:                                     │ │
│ │ NYCAYUGA1                 CAYUGA LAKE-NORTH END                    │ │
│ └───────────────────────────────────────────────────────────────────┘ │
│ ┌ Uses of Waterbody: NYCAYUGA1 ─────────────────────────────────────┐ │
│ │ Use: FISH            Use Support Code (F, N, P, or T):  P          │ │
│ └───────────────────────────────────────────────────────────────────┘ │
│ ┌ Pollutants/Relative Contributions for: NYCAYUGA1 ─────────────────┐ │
│ │ Pollutant Name: OXYGEN CONSUMING MATERIALS (DO PROBLEMS)           │ │
│ │                                                                    │ │
│ │ --------------- Contribution From Sources (Decimal Fraction) ----------│
│ │ NPS: 0.40     POINT: 0.40     BACKGROUND: 0.20     Information Type: C│
│ └───────────────────────────────────────────────────────────────────┘ │
└────────────────────────────────────────────────────────────────────────┘
   F1-Help    PgUp-Prev MF Area    PgDn-Next MF Area    ESC-Mgmt Area Info Menu
```

Figure 4.1.1-1 Screen 1.04

The user may use the <PAGE UP> and <PAGE DOWN> keys to display the previous or next management area, or select the LIST option from the Management Area Menu to view all of the management areas in a selectable list. Only the management areas associated with the current state are displayed.

To add, change, or view the PROJECT DESCRIPTION field, the user must select the NOTES option from the Management Area Menu.

Note that the MANAGEMENT AREA ID is a key field used throughout the entire NPSMS system. Therefore, it can not be modified using the CHANGE option.

4.1.2 WATERBODY

Selecting WATERBODY from the Management Area Information Menu (Screen 1.03) will display Screen 1.05 (see Figure 4.1.2-1). This screen allows the user to add, change, delete, or view the waterbody information.

```
┌──────────────────────────────────────────────────────────1.05┐
│┌──────────────────────────────────────┬────────────────────┐│
││ Add    Change   Delete   List         │ WATERBODY          ││
│└──────────────────────────────────────┴────────────────────┘│
│┌─ Management Areas for: NY───────────────────────────────────┐│
││ ID:   NYSENECA1                                             ││
││ Name: SENECA RIVER DRAINAGE                                 ││
││ Participating Agencies: DEC, VILLAGES OF WATERLOO & SENECA FALLS,USDA,SWCD││
││ Project Description:                                        ││
││ This pretend, 64,000-acre watershed project in the northern end of Seneca││
││ County drains into the north end of Cayuga Lake.  Problems in the watershed││
│└─────────────────────────────────────────────────────────────┘│
│┌─ Waterbodies 305(b) for: NYSENECA1 ────────────────────────┐│
││ ID:                    Name:                                ││
││ NYCAYUGA1              CAYUGA LAKE-NORTH END                 ││
│└─────────────────────────────────────────────────────────────┘│
│┌─ Uses of Waterbody: NYCAYUGA1 ─────────────────────────────┐│
││ Use: FISH           Use Support Code (F, N, P, or T):  P    ││
│└─────────────────────────────────────────────────────────────┘│
│┌─ Pollutants/Relative Contributions for: NYCAYUGA1 ─────────┐│
││ Pollutant Name: OXYGEN CONSUMING MATERIALS (DO PROBLEMS)    ││
││                                                             ││
││ --------------- Contribution From Sources (Decimal Fraction) ---------------││
││ NPS: 0.40     POINT: 0.40     BACKGROUND: 0.20   Information Type: C ││
│└─────────────────────────────────────────────────────────────┘│
└──────────────────────────────────────────────────────────────┘
     F1-Help   PgUp-Prev WB   PgDn-Next WB   ESC-Mgmt Area Info Menu
```

Figure 4.1.2-1   Screen 1.05

The user may use the <PAGE UP> and <PAGE DOWN> keys to display the previous or next waterbody, or select the LIST option from the Waterbody Menu to view all of the waterbodies in a selectable list. Only the waterbodies associated with the current state and management area are displayed.

Note that the WATERBODY ID is a key field used throughout the entire NPSMS system. Therefore, it can not be modified using the CHANGE option.

4.1.3   USES FOR WATERBODY

Selecting USES FOR WB from the Management Area Information Menu (Screen 1.03) will display Screen 1.06 (see Figure 4.1.3-1). This screen allows the user to add, change, delete, or view the designated uses and use support status for the waterbody shown.

```
┌──────────────────────────────────────────────────────────1.06┐
│┌──────────────────────────────────────┬────────────────────┐│
││ Add    Change   Delete   List         │ WATERBODY USES     ││
│└──────────────────────────────────────┴────────────────────┘│
│┌─ Management Areas for: NY───────────────────────────────────┐│
││ ID:   NYSENECA1                                             ││
││ Name: SENECA RIVER DRAINAGE                                 ││
││ Participating Agencies: DEC, VILLAGES OF WATERLOO & SENECA FALLS,USDA,SWCD││
││ Project Description:                                        ││
││ This pretend, 64,000-acre watershed project in the northern end of Seneca││
││ County drains into the north end of Cayuga Lake.  Problems in the watershed││
│└─────────────────────────────────────────────────────────────┘│
│┌─ Waterbodies 305(b) for: NYSENECA1 ────────────────────────┐│
││ ID:                    Name:                                ││
││ NYCAYUGA1              CAYUGA LAKE-NORTH END                 ││
│└─────────────────────────────────────────────────────────────┘│
│┌─ Uses of Waterbody: NYCAYUGA1 ─────────────────────────────┐│
││ Use: FISH           Use Support Code (F, N, P, or T):  P    ││
│└─────────────────────────────────────────────────────────────┘│
│┌─ Pollutants/Relative Contributions for: NYCAYUGA1 ─────────┐│
││ Pollutant Name: OXYGEN CONSUMING MATERIALS (DO PROBLEMS)    ││
││                                                             ││
││ --------------- Contribution From Sources (Decimal Fraction) ---------------││
││ NPS: 0.40     POINT: 0.40     BACKGROUND: 0.20   Information Type: C ││
│└─────────────────────────────────────────────────────────────┘│
└──────────────────────────────────────────────────────────────┘
     F1-Help   PgUp-Prev WB Use   PgDn-Next WB Use   ESC-Mgmt Area Info Menu
```

Figure 4.1.3-1   Screen 1.06

The user may use the <PAGE UP> and <PAGE DOWN> keys to display the previous or next use for the waterbody, or select the LIST option from the Waterbody Uses Menu to view all of the uses in a selectable list. Only the uses associated with the current waterbody are displayed.

Note that a selectable list of "Standard Waterbody Uses" is available to assist the user when adding or making changes. The user must press the <F1> key when the USE field is highlighted to access this list.

4.1.4 POLLUTANTS

Selecting POLLUTANTS from the Management Area Information Menu (Screen 1.03) will display Screen 1.07 (see Figure 4.1.4-1). This screen allows the user to add, change, delete, or view the principal factors causing the water quality problems in the waterbody shown.

```
┌──────────────────────────────────────────────────────1.07─┐
│ Add    Change   Delete   List                 │ POLLUTANTS  │
│                                               └             │
├ Management Areas for: NY──────────────────────────────────┤
│ ID:   NYSENECA1                                            │
│ Name: SENECA RIVER DRAINAGE                               │
│ Participating Agencies: DEC, VILLAGES OF WATERLOO & SENECA FALLS,USDA,SWCD │
│ Project Description:                                       │
│ This pretend, 64,000-acre watershed project in the northern end of Seneca │
│ County drains into the north end of Cayuga Lake.  Problems in the watershed │
├ Waterbodies 305(b) for: NYSENECA1 ─────────────────────────┤
│ ID:                        Name:                          │
│ NYCAYUGA1                   CAYUGA LAKE-NORTH END          │
├ Uses of Waterbody: NYCAYUGA1 ─────────────────────────────┤
│ Use: FISH              Use Support Code (F, N, P, or T):  P │
├ Pollutants/Relative Contributions for: NYCAYUGA1 ──────────┤
│ Pollutant Name: OXYGEN CONSUMING MATERIALS (DO PROBLEMS)  │
│                                                            │
│ --------------- Contribution From Sources (Decimal Fraction) --------------- │
│ NPS: 0.40     POINT: 0.40     BACKGROUND: 0.20    Information Type: C │
└────────────────────────────────────────────────────────────┘
F1-Help    PgUp-Prev Pollutant    PgDn-Next Pollutant    ESC-Mgmt Area Info Menu
```

Figure 4.1.4-1 Screen 1.07

The user may use the <PAGE UP> and <PAGE DOWN> keys to display the previous or next pollutant for the waterbody, or select the LIST option from the Pollutants Menu to view all of the pollutants in a selectable list. Only the pollutants associated with the current waterbody are displayed.

Note that selectable lists of "Standard Pollutants" and "Standard Information Types" are available to assist the user when adding or making changes. The user must press the <F1> key when the POLLUTANT NAME or INFORMATION TYPE field is highlighted to access these lists.

4.2 BEST MANAGEMENT PRACTICES and PROJECT FUNDING

Selecting BMPs & FUNDING from Screen 1.02 will generate a menu, Screen 1.20 (see Figure 4.2-1), for the best management practices (BMPs) and project funding information. The user may view, add, change, or delete information from this menu for the state previously selected.

```
                                                                    ━1.20━
┌──────────────────────────────────────────────────────────────┐
│ BMPs  Sources Cntld  Pollutants  Impaired Uses  Funding │ BMPs/FUNDING │
└──────────────────────────────────────────────────────────────┘
  ┌─ CURRENT NPS STATE AND LEAD AGENCY ─────────────────────────┐
  │  State: NY    │   Lead Agency: DEC                          │
  └──────────────────────────────────────────────────────────────┘
  ┌─ BMPs, System or Control Measures for Mgmt Area: NYSENECA1 ──┐
  │ BMP Name: ANIMAL WASTE MANAGEMENT                   BMP Type: C │
  │ Reporting Units: A.U. CONTROLLED          Implementation Goal: 2000 │
  └──────────────────────────────────────────────────────────────┘
  ┌─ Sources Controlled By BMP: ANIMAL WASTE MANAGEMENT ────────┐
  │ Source Name: DAIRIES                                        │
  └──────────────────────────────────────────────────────────────┘
  ┌─ Pollutants For Source: DAIRIES ───────────────────────────┐
  │ Pollutant Name:                                            │
  │ OXYGEN CONSUMING MATERIALS (DO PROBLEMS)                    │
  └──────────────────────────────────────────────────────────────┘
  ┌─ Impaired Uses Caused By: OXYGEN CONSUMING MATERIALS (DO PROBLEMS) ─┐
  │ FISH                                                       │
  └──────────────────────────────────────────────────────────────┘
  ┌─ Funding Information for Mgmt Area: NYSENECA1 ──────────────┐
  │ Year 1990                      Source of Funding: 319(H)    │
  │ Use of Funding: TECHNICAL ASSISTANCE       Amount: $   25,000 │
  └──────────────────────────────────────────────────────────────┘
         F1-Help                        ESC-Return to the Previous Menu
```

Figure 4.2-1   Screen 1.20

4.2.1 BEST MANAGEMENT PRACTICES

Selecting BMPs from the BMPs/Funding Menu (Screen 1.20) will display Screen 1.21 (see Figure 4.2.1-1). This screen allows the user to add, change, delete, or view the best management practices (BMPs) and control measures to be used and the implementation goals for the management area shown.

```
                                                                    ━1.21━
┌──────────────────────────────────────────────────────────────┐
│ Add    Change   Delete   List                        │ BMP NAME │
└──────────────────────────────────────────────────────────────┘
  ┌─ CURRENT NPS STATE AND LEAD AGENCY ─────────────────────────┐
  │  State: NY    │   Lead Agency: DEC                          │
  └──────────────────────────────────────────────────────────────┘
  ┌─ BMPs, System or Control Measures for Mgmt Area: NYSENECA1 ──┐
  │ BMP Name: ANIMAL WASTE MANAGEMENT                   BMP Type: C │
  │ Reporting Units: A.U. CONTROLLED          Implementation Goal: 2000 │
  └──────────────────────────────────────────────────────────────┘
  ┌─ Sources Controlled By BMP: ANIMAL WASTE MANAGEMENT ────────┐
  │ Source Name: DAIRIES                                        │
  └──────────────────────────────────────────────────────────────┘
  ┌─ Pollutants For Source: DAIRIES ───────────────────────────┐
  │ Pollutant Name:                                            │
  │ OXYGEN CONSUMING MATERIALS (DO PROBLEMS)                    │
  └──────────────────────────────────────────────────────────────┘
  ┌─ Impaired Uses Caused By: OXYGEN CONSUMING MATERIALS (DO PROBLEMS) ─┐
  │ FISH                                                       │
  └──────────────────────────────────────────────────────────────┘
  ┌─ Funding Information for Mgmt Area: NYSENECA1 ──────────────┐
  │ Year 1990                      Source of Funding: 319(H)    │
  │ Use of Funding: TECHNICAL ASSISTANCE       Amount: $   25,000 │
  └──────────────────────────────────────────────────────────────┘
      F1-Help   PgUp-Prev BMP   PgDn-Next BMP   ESC-BMP/Proj Funding Menu
```

Figure 4.2.1-1   Screen 1.21

The user may use the <PAGE UP> and <PAGE DOWN> keys to display the previous or next BMP for the management area, or select the LIST option from the BMP Menu to view all of the BMPs in a selectable list. Only the BMPs associated with the current management area are displayed.

Note that a selectable list of "Standard BMP Names" is available to assist the user when adding or making changes. The user must press the <F1> key when the BMP NAME field is highlighted to access this list.

4.2.2 SOURCES CONTROLLED

Selecting SOURCES CNTLD from the BMPs/Funding Menu (Screen 1.20) will display Screen 1.22 (see Figure 4.2.2-1). This screen allows the user to add, delete, or view the sources to be controlled by the BMP shown.

```
┌──────────────────────────────────────────────────────────1.22──┐
│  Add    Delete   List                          │ SOURCES CNTLD  │
├────────────────────────────────────────────────┴────────────────┤
│ ┌─ CURRENT NPS STATE AND LEAD AGENCY ─────────────────────────┐ │
│ │  State: NY    │  Lead Agency: DEC                           │ │
│ └──────────────────────────────────────────────────────────────┘ │
│ ┌─ BMPs, System or Control Measures for Mgmt Area: NYSENECA1 ─┐ │
│ │ BMP Name: ANIMAL WASTE MANAGEMENT              BMP Type: C   │ │
│ │ Reporting Units: A.U. CONTROLLED      Implementation Goal: 2000 │
│ └──────────────────────────────────────────────────────────────┘ │
│ ┌─ Sources Controlled By BMP: ANIMAL WASTE MANAGEMENT ───────┐ │
│ │ Source Name: DAIRIES                                        │ │
│ └──────────────────────────────────────────────────────────────┘ │
│ ┌─ Pollutants For Source: DAIRIES ───────────────────────────┐ │
│ │ Pollutant Name:                                             │ │
│ │ OXYGEN CONSUMING MATERIALS (DO PROBLEMS)                    │ │
│ └──────────────────────────────────────────────────────────────┘ │
│ ┌─ Impaired Uses Caused By: OXYGEN CONSUMING MATERIALS (DO PROBLEMS) ─┐ │
│ │ FISH                                                        │ │
│ └──────────────────────────────────────────────────────────────┘ │
│ ┌─ Funding Information for Mgmt Area: NYSENECA1 ─────────────┐ │
│ │ Year 1990                    Source of Funding: 319(H)      │ │
│ │ Use of Funding:  TECHNICAL ASSISTANCE       Amount: $   25,000 │
│ └──────────────────────────────────────────────────────────────┘ │
└──────────────────────────────────────────────────────────────────┘
    F1-Help    PgUp-Prev Source    PgDn-Next Source    ESC-BMP/Proj Funding Menu
```

Figure 4.2.2-1 Screen 1.22

The user may use the <PAGE UP> and <PAGE DOWN> keys to display the previous or next source for the BMP, or select the LIST option from the Sources Controlled Menu to view all of the sources in a selectable list. Only the sources associated with the current BMP are displayed.

Note that a selectable list of "Standard Source Names" is available to assist the user when adding sources. The user must press the <F1> key when the SOURCE NAME field is highlighted to access this list.

4.2.3 POLLUTANTS

Selecting POLLUTANTS from the BMPs/Funding Menu (Screen 1.20) will display Screen 1.23 (see Figure 4.2.3-1). This screen allows the user to add, delete, or view the pollutants for the controlled source and the BMP shown.

```
┌──────────────────────────────────────────────────────────1.23──┐
│  Add    Delete   List                          │ POLLUTANTS     │
├────────────────────────────────────────────────┴────────────────┤
│ ┌─ CURRENT NPS STATE AND LEAD AGENCY ─────────────────────────┐ │
│ │  State: NY    │  Lead Agency: DEC                           │ │
│ └──────────────────────────────────────────────────────────────┘ │
│ ┌─ BMPs, System or Control Measures for Mgmt Area: NYSENECA1 ─┐ │
│ │ BMP Name: ANIMAL WASTE MANAGEMENT              BMP Type: C   │ │
│ │ Reporting Units: A.U. CONTROLLED      Implementation Goal: 2000 │
│ └──────────────────────────────────────────────────────────────┘ │
│ ┌─ Sources Controlled By BMP: ANIMAL WASTE MANAGEMENT ───────┐ │
│ │ Source Name: DAIRIES                                        │ │
│ └──────────────────────────────────────────────────────────────┘ │
│ ┌─ Pollutants For Source: DAIRIES ───────────────────────────┐ │
│ │ Pollutant Name:                                             │ │
│ │ OXYGEN CONSUMING MATERIALS (DO PROBLEMS)                    │ │
│ └──────────────────────────────────────────────────────────────┘ │
│ ┌─ Impaired Uses Caused By: OXYGEN CONSUMING MATERIALS (DO PROBLEMS) ─┐ │
│ │ FISH                                                        │ │
│ └──────────────────────────────────────────────────────────────┘ │
│ ┌─ Funding Information for Mgmt Area: NYSENECA1 ─────────────┐ │
│ │ Year 1990                    Source of Funding: 319(H)      │ │
│ │ Use of Funding:  TECHNICAL ASSISTANCE       Amount: $   25,000 │
│ └──────────────────────────────────────────────────────────────┘ │
└──────────────────────────────────────────────────────────────────┘
    F1-Help  F2-List MA Param  PgUp-Prev Param  PgDn-Next Param  ESC-BMP/Proj Menu
```

Figure 4.2.3-1 Screen 1.23

The user may use the <PAGE UP> and <PAGE DOWN> keys to display the previous or next pollutant for the source and BMP, or select the LIST option from the Pollutants Menu to view all of the pollutants in a selectable list. Only the pollutants associated with the current controlled source and BMP are displayed.

Note that a selectable list of "Pollutants Defined for the NPS Management Area" is available to assist the user when adding pollutants. The user must press the <F1> key when the POLLUTANT NAME field is highlighted to access this list.

4.2.4 IMPAIRED USES

Selecting IMPAIRED USES from the BMPs/Funding Menu (Screen 1.20) will display Screen 1.24 (see Figure 4.2.4-1). This screen allows the user to add, change, delete, or view the impaired uses associated with the pollutant, controlled source, and the BMP shown.

```
┌────────────────────────────────────────────────────1.24─┐
│ Add    Change   Delete   List              │ IMPAIRED USES │
├──────────────────────────────────────────────────────────┤
│ ┌─ CURRENT NPS STATE AND LEAD AGENCY ──────────────────┐ │
│ │ State: NY   │   Lead Agency: DEC                      │ │
│ └──────────────────────────────────────────────────────┘ │
│ ┌─ BMPs, System or Control Measures for Mgmt Area: NYSENECA1 ─┐ │
│ │ BMP Name: ANIMAL WASTE MANAGEMENT            BMP Type: C │ │
│ │ Reporting Units: A.U. CONTROLLED   Implementation Goal: 2000 │ │
│ └──────────────────────────────────────────────────────┘ │
│ ┌─ Sources Controlled By BMP: ANIMAL WASTE MANAGEMENT ──┐ │
│ │ Source Name: DAIRIES                                  │ │
│ └──────────────────────────────────────────────────────┘ │
│ ┌─ Pollutants For Source: DAIRIES ─────────────────────┐ │
│ │ Pollutant Name:                                       │ │
│ │ OXYGEN CONSUMING MATERIALS (DO PROBLEMS)              │ │
│ └──────────────────────────────────────────────────────┘ │
│ ┌─ Impaired Uses Caused By: OXYGEN CONSUMING MATERIALS (DO PROBLEMS) ─┐ │
│ │ FISH                                                  │ │
│ └──────────────────────────────────────────────────────┘ │
│ ┌─ Funding Information for Mgmt Area: NYSENECA1 ────────┐ │
│ │ Year 1990              Source of Funding: 319(H)      │ │
│ │ Use of Funding: TECHNICAL ASSISTANCE   Amount: $    25,000 │ │
│ └──────────────────────────────────────────────────────┘ │
└──────────────────────────────────────────────────────────┘
    F1-Help   PgUp-Prev Use   PgDn-Next Use   ESC-BMP/Proj Funding Menu
```

Figure 4.2.4-1 Screen 1.24

The user may use the <PAGE UP> and <PAGE DOWN> keys to display the previous or next impaired use, or select the LIST option from the Impaired Uses Menu to view all of the impaired uses in a selectable list. Only the impaired uses associated with the current pollutant, controlled source, and BMP are displayed.

Note that a selectable list of "Standard Waterbody Uses" is available to assist the user when adding or making changes. The user must press the <F1> key when the IMPAIRED USES field is highlighted to access this list.

4.2.5 FUNDING

Selecting FUNDING from the BMPs/Funding Menu (Screen 1.20) will display Screen 1.25 (see Figure 4.2.5-1). This screen allows the user to add, change, delete, or view the funding expenditures for the project by the monitoring year.

```
╔══════════════════════════════════════════════════════════════════════╗
║  Add    Change   Delete   List                    │ FUNDING           ║
╠══════════════════════════════════════════════════════════════════════╣
┌─ CURRENT NPS STATE AND LEAD AGENCY ─────────────────────────────────────┐
│  State: NY    │   Lead Agency: DEC                                       │
└─────────────────────────────────────────────────────────────────────────┘
┌─ BMPs, System or Control Measures for Mgmt Area: NYSENECA1 ─────────────┐
│ BMP Name: ANIMAL WASTE MANAGEMENT                        BMP Type: C     │
│ Reporting Units: A.U. CONTROLLED          Implementation Goal: 2000      │
└─────────────────────────────────────────────────────────────────────────┘
┌─ Sources Controlled By BMP: ANIMAL WASTE MANAGEMENT ────────────────────┐
│ Source Name: DAIRIES                                                     │
└─────────────────────────────────────────────────────────────────────────┘
┌─ Pollutants For Source: DAIRIES ────────────────────────────────────────┐
│ Pollutant Name:                                                          │
│ OXYGEN CONSUMING MATERIALS (DO PROBLEMS)                                 │
└─────────────────────────────────────────────────────────────────────────┘
┌─ Impaired Uses Caused By: OXYGEN CONSUMING MATERIALS (DO PROBLEMS) ──────┐
│ FISH                                                                     │
└─────────────────────────────────────────────────────────────────────────┘
┌─ Funding Information for Mgmt Area: NYSENECA1 ──────────────────────────┐
│ Year 1990                    Source of Funding: 319(H)                   │
│ Use of Funding:  TECHNICAL ASSISTANCE          Amount: $       25,000    │
└─────────────────────────────────────────────────────────────────────────┘
      F1-Help   PgUp-Prev Fund   PgDn-Next Fund   ESC-BMP/Proj Funding Menu
```

Figure 4.2.5-1 Screen 1.25

The user may use the <PAGE UP> and <PAGE DOWN> keys to display the previous or next funding, or select the LIST option from the Funding Menu to view all of the funding expenditures in a selectable list. The total funding amount for the entire project is also displayed in the selectable list. Only the funding expenditures associated with the current management area are displayed.

Note that a selectable list of "Standard Uses of Funding" is available to assist the user when adding or making changes. The user must press the <F1> key when the USE OF FUNDING field is highlighted to access this list.

5. MONITORING PLAN FILE

The Monitoring Plan File contains information pertaining to the type of study that will be implemented to monitor the specified management area/waterbody. This includes the monitoring design, station identification, monitoring year and seasons, drainage area, land use, and the parameters that will be monitored at each station.

The Monitoring Plan File is organized by chemical/physical and biological/habitat data. The monitoring plan is entered only *one time* for a particular management area and should not be changed after the initial entry. Although only one monitoring plan may be entered for each management area, a separate plan may be setup for chemical/physical data AND biological/habitat data.

Selecting DESIGN from the Main Menu (Screen 0.00) will display Screen 2.01 (see Figure 5-1). This screen allows the user to choose either CHEMICAL/PHYSICAL monitoring or BIOLOGICAL/HABITAT monitoring.

```
┌──────────────────────────────────────────────────────2.01─┐
│ Chemical/Physical    Biological/Habitat     Exit  │ MONITORING PLAN │
├───────────────────────────────────────────────────────────┤
│ ┌───────────────────────────────────────────────────────┐ │
│ │                                                       │ │
│ │                                                       │ │
│ │                                                       │ │
│ │                                                       │ │
│ │                                                       │ │
│ │                                                       │ │
│ │                                                       │ │
│ │                                                       │ │
│ │                                                       │ │
│ └───────────────────────────────────────────────────────┘ │
│ ┌───────────────────────────────────────────────────────┐ │
│ │           NONPOINT SOURCE MANAGEMENT SYSTEM           │ │
│ │                    Version 3.01                       │ │
│ │      Press <F1> for HELP -- Alt+<F1> for Alternate HELP │ │
│ └───────────────────────────────────────────────────────┘ │
└───────────────────────────────────────────────────────────┘
```

Figure 5-1 Screen 2.01

5.1 CHEMICAL/PHYSICAL

Selecting CHEMICAL/PHYSICAL from Screen 2.01 will display Screen 2.02 (see Figure 5.1-1). This screen allows the user to select or add the chemical and physical monitoring plan for the management area.

```
┌─────────────────────────────────────────────────┬──────────────────┐
│  Chemical/Physical   Biological/Habitat   Exit   │ MONITORING PLAN  │
└─────────────────────────────────────────────────┴──────────────────┘

  ┌───────────────────────────────────────────────────────────────┐
  │ ┌───────────────────────────────────────────────────────────┐ │
  │ │           MONITORING PLANS FOR MANAGEMENT AREAS           │ │
  │ │                                                           │ │
  │ │           State (FIPS Code):      NY                      │ │
  │ │                                                           │ │
  │ │           NPS Management Area ID: NYSENECA1               │ │
  │ │                                                           │ │
  │ │           305(b) Waterbody ID:    NYCAYUGA1               │ │
  │ │                                                           │ │
  │ │           Data Type (Chem/Bio):   C                       │ │
  │ │                                                           │ │
  │ └───────────────────────────────────────────────────────────┘ │
  │  (L)ist  (A)dd  (Q)A/QC  PGUP-Previous  PGDN-Next  ↵-Accept  ESC-Exit │
  └───────────────────────────────────────────────────────────────┘

  ┌───────────────────────────────────────────────────────────────┐
  │                 NONPOINT SOURCE MANAGEMENT SYSTEM             │
  │                         Version 3.01                         │
  │          Press <F1> for HELP -- Alt+<F1> for Alternate HELP   │
  └───────────────────────────────────────────────────────────────┘
```

Figure 5.1-1 Screen 2.02

The user may use the <PAGE UP> and <PAGE DOWN> keys to display the previous or next plan, or select the LIST option to view all of the monitoring plans for chemical and physical data in a selectable list.

To add a new monitoring plan, the user must type **A**. A selectable list of "NPS Management Areas" is available to assist the user. The user must press the <F1> key when the STATE field is highlighted to access this list.

The QA/QC description field will automatically be displayed when a new monitoring plan is entered. The user must enter descriptions and quality control procedures in this note field. To make changes to the QA/QC field, the user must type **Q**.

Note that a state, management area, and waterbody must be entered in the Management File before the monitoring plan can be entered.

Once the user selects a chemical and physical monitoring plan for the management area, Screen 2.03 (see Figure 5.1-2), will be displayed. This screen is a menu for the chemical and physical monitoring plan previously selected.

```
┌─────────────────────────────────────────────────┬──────────────────┐
│  Design   Monitoring Year   Stations   Parameters│ MONITORING PLAN  │
└─────────────────────────────────────────────────┴──────────────────┘
┌─ Design ──────────────────────┬──────────┬─────────────────────────────┐
│ NY │ M/A: NYSENECA1           │ CHEM/PHY │ Monitoring Design (P/U/S): U │
└────┴──────────────────────────┴──────────┴─────────────────────────────┘
┌─ Monitoring Year ──────────────────────────────────────────────────────┐
│  Season Names  Begin Date  End Date   Monitoring Year:   EXAMPLE: 1990  │
│ 1. SNOW/RAIN     03/01      05/31      Begins: 10/01      Begins: 10/89  │
│ 2.              /          /           Ends:   09/30      Ends:   09/90  │
│ 3.              /          /          (Enter All Begin/End Dates as MM/DD)│
│ 4.              /          /          (Except EXAMPLE Date, Enter as MM/YY)│
└────────────────────────────────────────────────────────────────────────┘
┌─ Stations for: Upstream/Downstream Study ──────────────────────────────┐
│               Share  Agency Cd  Station Code   Drainage-Mi²  Land Use   │
│ Upstream (U)    N    NYDEC      CAYUGA101        10.000       RESIDENTIAL│
└────────────────────────────────────────────────────────────────────────┘
┌─ Parameters for: Upstream Station ─────────────────────────────────────┐
│ Explanatory Variable: N                                                 │
│ Code/Name:  00310        / BOD, 5 DAY, 20 DEG C                         │
│ Parameter Type (W/S/B/U): S              Reporting Units:               │
│ Parameter Quartiles: 75% - 9      50% - 6              25% - 4          │
└────────────────────────────────────────────────────────────────────────┘
         Press F1 for Help,  ESC to Return to Previous Screen
```

Figure 5.1-2 Screen 2.03

5.1.1 DESIGN

Selecting DESIGN from the Chemical/Physical Monitoring Plan Menu (Screen 2.03) will display Screen 2.04 (see Figure 5.1.1-1). This screen allows the user to add, change, or view the monitoring design code which defines the monitoring approach to be used for the project.

```
                                                            ─2.04─
 Design     Monitoring Year    Stations    Parameters  │ MONITORING PLAN │
┌─ Design ───────────────────────────────────────────────────────────────
│ NY │ M/A: NYSENECA1             │ CHEM/PHY │ Monitoring Design (P/U/S): U │
┌─ Monitoring Year ──────────────────────────────────────────────────────
│ Season Names  Begin Date  End Date   Monitoring Year:    EXAMPLE: 1990
│ 1. SNOW/RAIN    03/01      05/31       Begins: 10/01       Begins: 10/89
│ 2.               /          /          Ends:   09/30       Ends:   09/90
│ 3.               /          /         (Enter All Begin/End Dates as MM/DD)
│ 4.               /          /         (Except EXAMPLE Date, Enter as MM/YY)
┌─ Stations for: Upstream/Downstream Study ──────────────────────────────
│               Share  Agency Cd  Station Code    Drainage-Mi²  Land Use
│ Upstream (U)    N     NYDEC     CAYUGA101         10.000      RESIDENTIAL
┌─ Parameters for: Upstream Station ─────────────────────────────────────
│ Explanatory Variable: N
│ Code/Name: 00310        / BOD, 5 DAY, 20 DEG C
│ Parameter Type (W/S/B/U): S              Reporting Units:
│ Parameter Quartiles: 75% - 9          50% - 6         25% - 4
        F1-Help            ENTER( ┘)-Accept          ESC-Cancel
```

Figure 5.1.1-1 Screen 2.04

Note that the monitoring design code can not be changed once stations have been defined.

5.1.2 MONITORING YEAR

Selecting MONITORING YEAR from the Chemical/Physical Monitoring Plan Menu (Screen 2.03) will display Screen 2.05 (see Figure 5.1.2-1). This screen allows the user to add, change, or view the monitoring seasons and dates that identify the primary monitoring activity for the project.

```
                                                            ─2.05─
 Design     Monitoring Year    Stations    Parameters  │ MONITORING PLAN │
┌─ Design ───────────────────────────────────────────────────────────────
│ NY │ M/A: NYSENECA1             │ CHEM/PHY │ Monitoring Design (P/U/S): U │
┌─ Monitoring Year ──────────────────────────────────────────────────────
│ Season Names  Begin Date  End Date   Monitoring Year:    EXAMPLE: 1990
│ 1. SNOW/RAIN    03/01      05/31       Begins: 10/01       Begins: 10/89
│ 2.               /          /          Ends:   09/30       Ends:   09/90
│ 3.               /          /         (Enter All Begin/End Dates as MM/DD)
│ 4.               /          /         (Except EXAMPLE Date, Enter as MM/YY)
┌─ Stations for: Upstream/Downstream Study ──────────────────────────────
│               Share  Agency Cd  Station Code    Drainage-Mi²  Land Use
│ Upstream (U)    N     NYDEC     CAYUGA101         10.000      RESIDENTIAL
┌─ Parameters for: Upstream Station ─────────────────────────────────────
│ Explanatory Variable: N
│ Code/Name: 00310        / BOD, 5 DAY, 20 DEG C
│ Parameter Type (W/S/B/U): S              Reporting Units:
│ Parameter Quartiles: 75% - 9          50% - 6         25% - 4
        F1-Help            ENTER( ┘)-Accept          ESC-Cancel
```

Figure 5.1.2-1 Screen 2.05

5.1.3 STATIONS

Selecting STATIONS from the Chemical/Physical Monitoring Plan Menu (Screen 2.03) will display Screen 2.06 (see Figure 5.1.3-1). This screen allows the user to add, change, or view the monitoring station data for the monitoring plan.

```
                                                            ┌─2.06─┐
┌─────────────────────────────────────────────────────┬────┴──────┤
│ Add      Change     List                             │ STATIONS  │
└─────────────────────────────────────────────────────┴───────────┘
┌─ Design ──────────────────────────────────────────────────────────┐
│ NY │ M/A: NYSENECA1          │ CHEM/PHY │ Monitoring Design (P/U/S): U │
└────────────────────────────────────────────────────────────────────┘
┌─ Monitoring Year ──────────────────────────────────────────────────┐
│  Season Names   Begin Date  End Date    Monitoring Year:   EXAMPLE: 1990 │
│ 1. SNOW/RAIN      03/01       05/31      Begins: 10/01      Begins: 10/89 │
│ 2.                  /           /        Ends:   09/30      Ends:   09/90 │
│ 3.                  /           /        (Enter All Begin/End Dates as MM/DD) │
│ 4.                  /           /        (Except EXAMPLE Date, Enter as MM/YY) │
└────────────────────────────────────────────────────────────────────┘
┌─ Stations for: Upstream/Downstream Study ─────────────────────────┐
│               Share  Agency Cd  Station Code   Drainage-MI²  Land Use │
│ Upstream (U)    N     NYDEC     CAYUGA101        10.000      RESIDENTIAL │
└────────────────────────────────────────────────────────────────────┘
┌─ Parameters for: Upstream Station ────────────────────────────────┐
│ Explanatory Variable: N                                            │
│ Code/Name: 00310        / BOD, 5 DAY, 20 DEG C                     │
│ Parameter Type (W/S/B/U): S              Reporting Units:          │
│ Parameter Quartiles: 75% - 9        50% - 6          25% - 4       │
└────────────────────────────────────────────────────────────────────┘
     F1-Help    PGUP-Previous Station    PGDN-Next Station    ESC-Exit
```

Figure 5.1.3-1   Screen 2.06

The user may use the <PAGE UP> and <PAGE DOWN> keys to toggle between the stations, or select LIST from the Station Menu to view both stations. Only the stations associated with the monitoring design selected are displayed.

Note that a selectable list of "Monitoring Stations" is available to assist the user when adding or making changes. The user must press the <F1> key when the AGENCY CD field is highlighted to access this list.

To add, change, delete, or view the LAND USE information, the user must press the <ENTER> key while the DRAINAGE field is highlighted. This will generate the following screen.

```
                                                            ┌─2.06─┐
┌─────────────────────────────────────────────────────┬────┴──────┤
│ Add      Change     List                             │ STATIONS  │
└─────────────────────────────────────────────────────┴───────────┘
┌─ Design ──────────────────────┬───────────┬──────────────────────┐
│                        LAND USE INFORMATION                       │
│                                                                   │
│ Year   Land Use                      Percentage of Drainage Area  │
│                                                                   │
│ 91     RESIDENTIAL                                        85.0     │
│ 91     COMMERCIAL/RESIDENTIAL                             15.0     │
│                                                                   │
│                                                                   │
│                                                                   │
│                                                                   │
│           - Highlight Bar │ ESC-EXIT  A-ADD  C-CHANGE  D-DELETE   │
│                           ─── Top of List───                      │
│ Parameter Type (W/S/B/U): S              Reporting Units:          │
│ Parameter Quartiles: 75% - 9        50% - 6          25% - 4       │
└────────────────────────────────────────────────────────────────────┘
     F1-Help              ENTER( ↵ )-Accept           ESC-Cancel
```

Figure 5.1.3-2

Note that a selectable list of "Standard Land Uses" is available to assist the user when adding or changing LAND USES. The user must press the <F1> key when the LAND USE field is highlighted to access this list.

5.1.4 PARAMETERS

Selecting PARAMETERS from the Chemical/Physical Monitoring Plan Menu (Screen 2.03) will display Screen 2.07 (see Figure 5.1.4-1). This screen allows the user to add, change, delete, or view the parameters for the monitoring station shown.

```
                                                        ┌─────2.07─┐
┌─────────────────────────────────────────────────────┬──────────┐
│ Add      Change    Delete    List                    │ PARAMETERS│
└─────────────────────────────────────────────────────┴──────────┘
┌─ Design ────────────────────────┬─────────┬──────────────────────────┐
│ NY │ M/A: NYSENECA1             │ CHEM/PHY │ Monitoring Design (P/U/S): U│
└─────────────────────────────────┴─────────┴──────────────────────────┘
┌─ Monitoring Year ──────────────────────────────────────────────────┐
│  Season Names    Begin Date  End Date   Monitoring Year:   EXAMPLE: 1990│
│  1. SNOW/RAIN      03/01       05/31       Begins:  10/01     Begins: 10/89│
│  2.                  /           /         Ends:    09/30     Ends:   09/90│
│  3.                  /           /       (Enter All Begin/End Dates as MM/DD)│
│  4.                  /           /       (Except EXAMPLE Date, Enter as MM/YY)│
└────────────────────────────────────────────────────────────────────┘
┌─ Stations for: Upstream/Downstream Study ──────────────────────────┐
│                Share  Agency Cd  Station Code   Drainage-Mi²  Land Use│
│  Upstream (U)    N     NYDEC     CAYUGA101        10.000     RESIDENTIAL│
│                                                                      │
└────────────────────────────────────────────────────────────────────┘
┌─ Parameters for: Upstream Station ─────────────────────────────────┐
│ Explanatory Variable: N                                             │
│ Code/Name: 00310      / BOD, 5 DAY, 20 DEG C                        │
│ Parameter Type (W/S/B/U): S               Reporting Units:          │
│ Parameter Quartiles:  75% - 9        50% - 6        25% - 4         │
└────────────────────────────────────────────────────────────────────┘
     F1-Help    PGUP-Previous Parameter    PGDN-Next Parameter    ESC-Exit
```

Figure 5.1.4-1   Screen 2.07

The user may use the <PAGE UP> and <PAGE DOWN> keys to display the previous or next parameter, or select the LIST option from the Parameters Menu to view all of the parameters in a selectable list. Only the parameters associated with the current station are displayed.

Note that a selectable list of "Standard Parameters" is available to assist the user when adding or making changes. The user must press the <F1> key when the CODE/NAME field is highlighted to access this list.

5.2 BIOLOGICAL/HABITAT

Selecting BIOLOGICAL/HABITAT from Screen 2.01 will display Screen 2.22 (see Figure 5.2-1). This screen allows the user to select or add the biological and habitat monitoring plan for the management area.

```
┌─────────────────────────────────────────────────────────2.22─┐
│ Chemical/Physical    Biological/Habitat    Exit   │ MONITORING PLAN │
└───────────────────────────────────────────────┴────────────────┘

  ┌──────────────────────────────────────────────────────────┐
  │           MONITORING PLANS FOR MANAGEMENT AREAS          │
  ├──────────────────────────────────────────────────────────┤
  │                                                          │
  │        State (FIPS Code):     NY                        │
  │                                                          │
  │        NPS Management Area ID: NYSENECA1                 │
  │                                                          │
  │        305(b) Waterbody ID:   NYCAYUGA1                  │
  │                                                          │
  │        Data Type (Chem/Bio):  B                         │
  │                                                          │
  ├──────────────────────────────────────────────────────────┤
  │  (L)ist  (A)dd  (Q)A/QC  PGUP-Previous  PGDN-Next  ⌐-Accept  ESC-Exit │
  └──────────────────────────────────────────────────────────┘

  ┌──────────────────────────────────────────────────────────┐
  │              NONPOINT SOURCE MANAGEMENT SYSTEM           │
  │                      Version 3.01                       │
  │        Press <F1> for HELP -- Alt+<F1> for Alternate HELP │
  └──────────────────────────────────────────────────────────┘
```

Figure 5.2-1 Screen 2.22

The user may use the <PAGE UP> and <PAGE DOWN> keys to display the previous or next plan, or select the LIST option to view all of the monitoring plans for biological and habitat data in a selectable list.

To add a new monitoring plan, the user must type **A**. A selectable list of "NPS Management Areas" is available to assist the user. The user must press the <F1> key when the STATE field is highlighted to access this list.

The QA/QC description field will automatically be displayed when a new monitoring plan is entered. The user must enter descriptions and quality control procedures in this note field. To make changes to the QA/QC field, the user must type **Q**.

Note that a state, management area, and waterbody must be entered in the Management File before the monitoring plan can be entered.

Once the user selects a biological and habitat monitoring plan for the management area, Screen 2.23 (see Figure 5.2-2), will be displayed. This screen is a menu for the biological and habitat monitoring plan previously selected.

```
┌─────────────────────────────────────────────────────────2.23─┐
│ Design   Monitoring Year   Stations   Parameters │ MONITORING PLAN │
└───────────────────────────────────────────────┴────────────────┘
┌─ Design ──────────────────────────────────────────────────────┐
│ NY │ M/A: NYSENECA1          │ BIO/HABI │ Monitoring Design (P/U/S): U │
└────────────────────────────────────────────────────────────────┘
┌─ Monitoring Year ──────────────────────────────────────────────┐
│  Season Names   Begin Date  End Date   Monitoring Year:  EXAMPLE: 1990 │
│ 1. SNOW/RAIN     03/01       05/31     Begins: 10/01    Begins: 10/89 │
│ 2.                /           /        Ends:   09/30    Ends:   09/90 │
│ 3.                /           /       (Enter All Begin/End Dates as MM/DD) │
│ 4.                /           /       (Except EXAMPLE Date, Enter as MM/YY) │
└────────────────────────────────────────────────────────────────┘
┌─ Stations for: Upstream/Downstream Study ──────────────────────┐
│            Share  Agency Cd  Station Code   Drainage-Mi²  Land Use │
│ Upstream (U)   N   NYDEC     CAYUGAB01         8.000     COMMERCIAL/R │
└────────────────────────────────────────────────────────────────┘
┌─ Parameters for: Upstream Station ─────────────────────────────┐
│ Explanatory Variable: C    Parameter Type (W/S/B/U): S    Units: CFS │
│ Code/Name: 00061       / FLOW, STREAM, INSTANTANEOUS, CFS │
│ CUTOFF VALUES:  Abn. High/Normal: 21        Normal/Abn. Low: 11 │
└────────────────────────────────────────────────────────────────┘
         Press F1 for Help.  ESC to Return to Previous Screen
```

Figure 5.2-2 Screen 2.23

5.2.1 DESIGN

Selecting DESIGN from the Biological/Habitat Monitoring Plan Menu (Screen 2.23) will display Screen 2.24 (see Figure 5.2.1-1). This screen allows the user to add, change, or view the monitoring design code which defines the monitoring approach to be used for the project.

```
┌────────────────────────────────────────────────────────2.24─┐
│ Design    Monitoring Year    Stations    Parameters  │ MONITORING PLAN │
├─────────────────────────────────────────────────────────────┤
│┌─ Design ───────────────────────────────────────────────────┐│
││ NY │ M/A: NYSENECA1              │ BIO/HABI │ Monitoring Design (P/U/S): U ││
│└─────────────────────────────────────────────────────────────┘│
│┌─ Monitoring Year ──────────────────────────────────────────┐│
││ Season Names  Begin Date  End Date   Monitoring Year:    EXAMPLE: 1990 ││
││ 1. SNOW/RAIN    03/01      05/31        Begins: 10/01     Begins: 10/89 ││
││ 2.               /          /           Ends:   09/30     Ends:   09/90 ││
││ 3.               /          /         (Enter All Begin/End Dates as MM/DD) ││
││ 4.               /          /         (Except EXAMPLE Date, Enter as MM/YY) ││
│└─────────────────────────────────────────────────────────────┘│
│┌─ Stations for: Upstream/Downstream Study ──────────────────┐│
││              Share  Agency Cd  Station Code    Drainage-Mi²  Land Use ││
││ Upstream (U)   N    NYDEC      CAYUGAB01          8.000      COMMERCIAL/R ││
│└─────────────────────────────────────────────────────────────┘│
│┌─ Parameters for: Upstream Station ─────────────────────────┐│
││ Explanatory Variable: C    Parameter Type (W/S/B/U): S    Units: CFS ││
││ Code/Name: 00061        / FLOW, STREAM, INSTANTANEOUS, CFS ││
││                                                            ││
││ CUTOFF VALUES:  Abn. High/Normal: 21        Normal/Abn. Low: 11 ││
│└─────────────────────────────────────────────────────────────┘│
│        F1-Help          ENTER( ↵ )-Accept          ESC-Cancel │
└─────────────────────────────────────────────────────────────┘
```

Figure 5.2.1-1   Screen 2.24

Note that the monitoring design code can not be changed once stations have been defined.

5.2.2 MONITORING YEAR

Selecting MONITORING YEAR from the Biological/Habitat Monitoring Plan Menu (Screen 2.23) will display Screen 2.25 (see Figure 5.2.2-1). This screen allows the user to add, change, or view the monitoring seasons and dates that identify the primary monitoring activity for the project.

```
┌────────────────────────────────────────────────────────2.25─┐
│ Design    Monitoring Year    Stations    Parameters  │ MONITORING PLAN │
├─────────────────────────────────────────────────────────────┤
│┌─ Design ───────────────────────────────────────────────────┐│
││ NY │ M/A: NYSENECA1              │ BIO/HABI │ Monitoring Design (P/U/S): U ││
│└─────────────────────────────────────────────────────────────┘│
│┌─ Monitoring Year ──────────────────────────────────────────┐│
││ Season Names  Begin Date  End Date   Monitoring Year:    EXAMPLE: 1990 ││
││ 1. SNOW/RAIN    03/01      05/31        Begins: 10/01     Begins: 10/89 ││
││ 2.               /          /           Ends:   09/30     Ends:   09/90 ││
││ 3.               /          /         (Enter All Begin/End Dates as MM/DD) ││
││ 4.               /          /         (Except EXAMPLE Date, Enter as MM/YY) ││
│└─────────────────────────────────────────────────────────────┘│
│┌─ Stations for: Upstream/Downstream Study ──────────────────┐│
││              Share  Agency Cd  Station Code    Drainage-Mi²  Land Use ││
││ Upstream (U)   N    NYDEC      CAYUGAB01          8.000      COMMERCIAL/R ││
│└─────────────────────────────────────────────────────────────┘│
│┌─ Parameters for: Upstream Station ─────────────────────────┐│
││ Explanatory Variable: C    Parameter Type (W/S/B/U): S    Units: CFS ││
││ Code/Name: 00061        / FLOW, STREAM, INSTANTANEOUS, CFS ││
││                                                            ││
││ CUTOFF VALUES:  Abn. High/Normal: 21        Normal/Abn. Low: 11 ││
│└─────────────────────────────────────────────────────────────┘│
│        F1-Help          ENTER( ↵ )-Accept          ESC-Cancel │
└─────────────────────────────────────────────────────────────┘
```

Figure 5.2.2-1   Screen 2.25

5.2.3 STATIONS

Selecting STATIONS from the Biological/Habitat Monitoring Plan Menu (Screen 2.23) will display Screen 2.26 (see Figure 5.2.3-1). This screen allows the user to add, change, or view the monitoring station data for the monitoring plan.

```
                                                                    ═2.26═
 ┌────────────────────────────────────────────────────┬───────────┐
 │ Add     Change    List                              │ STATIONS  │
 └────────────────────────────────────────────────────┴───────────┘
 ┌─ Design ──────────────────────┬──────────┬─────────────────────────┐
 │ NY │ M/A: NYSENECA1           │ BIO/HABI │ Monitoring Design (P/U/S): U │
 └────────────────────────────────┴──────────┴─────────────────────────┘
 ┌─ Monitoring Year ──────────────────────────────────────────────────┐
 │  Season Names   Begin Date  End Date   Monitoring Year:   EXAMPLE: 1990 │
 │ 1. SNOW/RAIN     03/01       05/31      Begins: 10/01      Begins: 10/89 │
 │ 2.                  /           /         Ends:  09/30      Ends:   09/90 │
 │ 3.                  /           /       (Enter All Begin/End Dates as MM/DD) │
 │ 4.                  /           /       (Except EXAMPLE Date, Enter as MM/YY) │
 └────────────────────────────────────────────────────────────────────┘
 ┌─ Stations for: Upstream/Downstream Study ──────────────────────────┐
 │             Share  Agency Cd  Station Code    Drainage-Mi²   Land Use │
 │ Upstream (U)   N    NYDEC     CAYUGAB01         8.000       COMMERCIAL/R │
 └────────────────────────────────────────────────────────────────────┘
 ┌─ Parameters for: Upstream Station ─────────────────────────────────┐
 │ Explanatory Variable: C     Parameter Type (W/S/B/U): S    Units: CFS │
 │ Code/Name: 00061         / FLOW, STREAM, INSTANTANEOUS, CFS          │
 │                                                                      │
 │ CUTOFF VALUES:  Abn. High/Normal: 21           Normal/Abn. Low: 11   │
 └────────────────────────────────────────────────────────────────────┘
      F1-Help     PGUP-Previous Station     PGDN-Next Station    ESC-Exit
```

Figure 5.2.3-1   Screen 2.26

The user may use the <PAGE UP> and <PAGE DOWN> keys to toggle between the stations, or select LIST from the Station Menu to view both stations. Only the stations associated with the monitoring design selected are displayed.

Note that a selectable list of "Monitoring Stations" is available to assist the user when adding or making changes. The user must press the <F1> key when the AGENCY CD field is highlighted to access this list.

To add, change, delete, or view the LAND USE information, the user must press the <ENTER> key while the DRAINAGE field is highlighted. This will generate the following screen.

```
                                                                    ═2.26═
 ┌────────────────────────────────────────────────────┬───────────┐
 │ Add     Change    List                              │ STATIONS  │
 └────────────────────────────────────────────────────┴───────────┘
 ┌─ Design ───────────────────────┬──────────┬─────────────────────┐
 │ ┌─────────────────────────────────────────────────────────────┐ │
 │ │                    LAND USE INFORMATION                      │ │
 │ │                                                              │ │
 │ │ Year   Land Use                    Percentage of Drainage Area │ │
 │ │                                                              │ │
 │ │ 90     COMMERCIAL/RESIDENTIAL                        40.0     │ │
 │ │ 90     FOREST LAND-PRIVATE                           45.0     │ │
 │ │ 90     INDUSTRIAL                                     2.0     │ │
 │ │ 90     MUNICIPAL PARK                                 2.0     │ │
 │ │ 90     RESIDENTIAL                                   11.0     │ │
 │ │                                                              │ │
 │ │                                                              │ │
 │ │                                                              │ │
 │ │      - Highlight Bar │ ESC-EXIT  A-ADD  C-CHANGE  D-DELETE    │ │
 │ │ ════════════════════════Top of List═════════════════════════ │ │
 │ └─────────────────────────────────────────────────────────────┘ │
 │ CUTOFF VALUES:  Abn. High/Normal: 21        Normal/Abn. Low: 11  │
 └─────────────────────────────────────────────────────────────────┘
      F1-Help              ENTER( ⌐)-Accept              ESC-Cancel
```

Figure 5.2.3-2

Note that a selectable list of "Standard Land Uses" is available to assist the user when adding or changing LAND USES. The user must press the <F1> key when the LAND USE field is highlighted to access this list.

5.2.4 PARAMETERS

Selecting PARAMETERS from the Biological/Habitat Monitoring Plan Menu (Screen 2.23) will display Screen 2.27 (see Figure 5.2.4-1). This screen allows the user to add, change, delete, or view the parameters for the monitoring station shown.

Note that the monitoring parameters for biological and habitat data are different than chemical and physical parameters. Additional information must be supplied to describe these parameters.

```
                                                              ═2.27═┐
│ Add      Change    Delete     List                        │ PARAMETERS │
└───────────────────────────────────────────────────────────────────┘
┌─ Design ──────────────────────────────────────────────────────────┐
│ NY │ M/A: NYSENECA1              │ BIO/HABI │ Monitoring Design (P/U/S): U │
└───────────────────────────────────────────────────────────────────┘
┌─ Monitoring Year ─────────────────────────────────────────────────┐
│ Season Names   Begin Date  End Date   Monitoring Year:   EXAMPLE: 1990 │
│ 1. SNOW/RAIN     03/01       05/31      Begins: 10/01      Begins: 10/89 │
│ 2.                 /           /        Ends:   09/30      Ends:   09/90 │
│ 3.                 /           /       (Enter All Begin/End Dates as MM/DD) │
│ 4.                 /           /       (Except EXAMPLE Date, Enter as MM/YY) │
└───────────────────────────────────────────────────────────────────┘
┌─ Stations for: Upstream/Downstream Study ─────────────────────────┐
│              Share  Agency Cd  Station Code   Drainage-Mi²  Land Use │
│ Upstream (U)   N    NYDEC      CAYUGAB01        8.000       COMMERCIAL/R │
└───────────────────────────────────────────────────────────────────┘
┌─ Parameters for: Upstream Station ────────────────────────────────┐
│ Explanatory Variable: C    Parameter Type (W/S/B/U): S    Units: CFS │
│ Code/Name: 00061      / FLOW, STREAM, INSTANTANEOUS, CFS │
│                                                                     │
│ CUTOFF VALUES:  Abn. High/Normal: 21        Normal/Abn. Low: 11 │
└───────────────────────────────────────────────────────────────────┘
     F1-Help    PGUP-Previous Parameter    PGDN-Next Parameter    ESC-Exit
```

Figure 5.2.4-1   Screen 2.27

The user may use the <PAGE UP> and <PAGE DOWN> keys to display the previous or next parameter, or select the LIST option from the Parameters Menu to view all of the parameters in a selectable list. Only the parameters associated with the current station are displayed.

Note that a selectable list of "Standard Parameters" is available to assist the user when adding or making changes. The user must press the <F1> key when the CODE/NAME field is highlighted to access this list.

6. ANNUAL REPORT FILE

The Annual Report File provides the capabilities to maintain the annual reports that must be submitted to EPA as required under the Nonpoint Source Program. Annual reports may be entered for each management area/waterbody for every year. Both chemical/physical and biological/habitat data can be added for a particular management area/waterbody.

When monitoring is complete for the year, the results for each parameter are entered in the annual report. Additionally, the progress of the best management practice (BMP) implementation is also reported. When the annual report is completed for a specific year, the NPSMS software provides the ability to export the annual report and other information to diskette so it may be sent to EPA.

Selecting ANNUAL from the Main Menu (Screen 0.00) will display Screen 3.01 (see Figure 6-1). This screen allows the user to choose either CHEMICAL/PHYSICAL data or BIOLOGICAL/HABITAT data.

```
                                                               =3.01=
    Chemical/Physical      Biological/Habitat      Exit      ANNUAL REPORTS








                    NONPOINT SOURCE MANAGEMENT SYSTEM
                            Version 3.01
              Press <F1> for HELP -- Alt+<F1> for Alternate HELP
```

Figure 6-1 Screen 3.01

6.1 CHEMICAL/PHYSICAL

Selecting CHEMICAL/PHYSICAL from Screen 3.01 will display Screen 3.02 (see Figure 6.1-1). This screen allows the user to select or add the annual reports for chemical and physical data for the management area.

```
┌──────────────────────────────────────────────────────┬─────3.02─┐
│ Chemical/Physical    Biological/Habitat    Exit       │ ANNUAL REPORTS │
└──────────────────────────────────────────────────────┴──────────┘
┌──────────────────────────────────────────────────────────────────┐
│            ANNUAL REPORTS FOR MANAGEMENT AREAS                     │
├──────────────────────────────────────────────────────────────────┤
│              State (FIPS Code):      NY                            │
│                                                                    │
│              NPS Management Area ID: NYSENECA1                     │
│                                                                    │
│              305(b) Waterbody ID:    NYCAYUGA1                     │
│                                                                    │
│              Annual Report Year:     1990                          │
│  ANNUAL REPORT NOTES:                                             │
│  This is the pre-implementation year in the project. Water quality data are │
├──────────────────────────────────────────────────────────────────┤
│  (L)ist  (A)dd Report  (N)otes  PGUP-Prev  PGDN-Next   ↵-Accept  ESC-Exit │
└──────────────────────────────────────────────────────────────────┘

┌──────────────────────────────────────────────────────────────────┐
│               NONPOINT SOURCE MANAGEMENT SYSTEM                    │
│                        Version 3.01                               │
│          Press <F1> for HELP -- Alt+<F1> for Alternate HELP        │
└──────────────────────────────────────────────────────────────────┘
```

Figure 6.1-1 Screen 3.02

The user may use the <PAGE UP> and <PAGE DOWN> keys to display the previous or next report, or select the LIST option to view all of the annual reports for chemical and physical data in a selectable list.

To add a new annual report, the user must type A. A selectable list of "Monitoring Designs" is available to assist the user. The user must press the <F1> key to access this list. The user may add additional reporting information to the screen by selecting the NOTES option.

Once the user selects a chemical and physical annual report, Screen 3.03 (see Figure 6.1-2) will be displayed. This screen allows the user to select either WATER QUALITY DATA or IMPLEMENTATION DATA.

```
┌──────────────────────────────────────────────────────┬─────3.03─┐
│ Water Quality Data   Implementation Data    Exit      │ ANNUAL REPORTS │
└──────────────────────────────────────────────────────┴──────────┘
┌──────────────────────────────────────────────────────────────────┐
│            ANNUAL REPORTS FOR MANAGEMENT AREAS                     │
├──────────────────────────────────────────────────────────────────┤
│              State (FIPS Code):      NY                            │
│                                                                    │
│              NPS Management Area ID: NYSENECA1                     │
│                                                                    │
│              305(b) Waterbody ID:    NYCAYUGA1                     │
│                                                                    │
│              Annual Report Year:     1990                          │
│  ANNUAL REPORT NOTES:                                             │
│  This is the pre-implementation year in the project. Water quality data are │
│  collected in the spring only since this is the season during which problems │
│  are the greatest and during which the controls to be implemented will have │
└──────────────────────────────────────────────────────────────────┘

┌──────────────────────────────────────────────────────────────────┐
│               NONPOINT SOURCE MANAGEMENT SYSTEM                    │
│                        Version 3.01                               │
│          Press <F1> for HELP -- Alt+<F1> for Alternate HELP        │
└──────────────────────────────────────────────────────────────────┘
```

Figure 6.1-2 Screen 3.03

6.1.1 WATER QUALITY DATA

Selecting WATER QUALITY DATA from Screen 3.03 will display Screen 3.04 (see Figure 6.1.1-1). This screen is a menu allowing the user to add, change, delete, or view water quality parameters for each station in the annual report.

```
┌──────────────────────────────────────────────────────────3.04─┐
│ Station      Parameters                              │ WATER QUALITY │
├──────────────────────────────────────────────────────────────┤

┌────┬───────────────────────┬──────────────────────┬──────────────┐
│ NY │ M/A: NYSENECA1        │ W/B: NYCAYUGA1       │ CHEM/PHY     │
└────┴───────────────────────┴──────────────────────┴──────────────┘

┌──────────────────────────────────────────────────────────────┐
│ Monitoring Design Plan: Upstream/Downstream Study   Year: 1990 │
└──────────────────────────────────────────────────────────────┘
┌─ Station ─────────────────────────────────────────────────────┐
│ Upstream Station        Agency Code: NYDEC    Station Code: CAYUGA101 │
└──────────────────────────────────────────────────────────────┘
┌─ Parameters for: Upstream Station ────────────────────────────┐
│                                                                │
│ Code/Name: 00310        / BOD, 5 DAY, 20 DEG C                 │
│ Explanatory Variable: N   Parameter Type: S   Parameter Units: │
│ ──────── PARAMETER QUARTILES ────────   COUNTS/SEASON -  1   2   3   4 │
│                                         Highest:        5   0   0   0 │
│                    75% - 9              High:           5   0   0   0 │
│                    50% - 6              Low:            5   0   0   0 │
│                    25% - 4              Lowest:         5   0 _ 0   0 │
│                                                                │
│ NOTES: First year.                                             │
└──────────────────────────────────────────────────────────────┘
          Press F1 for Help,   ESC to Return to Previous Screen
```

Figure 6.1.1-1   Screen 3.04

6.1.1.1 STATION

Selecting STATION from the Chemical/Physical Water Quality Menu (Screen 3.04) will display Screen 3.05 (see Figure 6.1.1.1-1). This screen allows the user to view the stations associated with the monitoring plan. After choosing a particular station, WQ parameters may be added to that station for annual reporting.

```
┌──────────────────────────────────────────────────────────3.05─┐
│ Station      Parameters                              │ STATION │
├──────────────────────────────────────────────────────────────┤

┌────┬───────────────────────┬──────────────────────┬──────────────┐
│ NY │ M/A: NYSENECA1        │ W/B: NYCAYUGA1       │ CHEM/PHY     │
└────┴───────────────────────┴──────────────────────┴──────────────┘

┌──────────────────────────────────────────────────────────────┐
│ Monitoring Design Plan: Upstream/Downstream Study   Year: 1990 │
└──────────────────────────────────────────────────────────────┘
┌─ Station ─────────────────────────────────────────────────────┐
│ Upstream Station        Agency Code: NYDEC    Station Code: CAYUGA101 │
└──────────────────────────────────────────────────────────────┘
┌─ Parameters for: Upstream Station ────────────────────────────┐
│                                                                │
│ Code/Name: 00310        / BOD, 5 DAY, 20 DEG C                 │
│ Explanatory Variable: N   Parameter Type: S   Parameter Units: │
│ ──────── PARAMETER QUARTILES ────────   COUNTS/SEASON -  1   2   3   4 │
│                                         Highest:        5   0   0   0 │
│                    75% - 9              High:           5   0   0   0 │
│                    50% - 6              Low:            5   0   0   0 │
│                    25% - 4              Lowest:         5   0   0   0 │
│                                                                │
│ NOTES: First year.                                             │
└──────────────────────────────────────────────────────────────┘
       F1-Help        PGUP-Previous     PGDN-Next      ESC-Exit
```

Figure 6.1.1.1-1   Screen 3.05

The user may use the <PAGE UP> and <PAGE DOWN> keys to toggle between the stations.

6.1.1.2 PARAMETERS

Selecting PARAMETERS from the Chemical/Physical Water Quality Menu (Screen 3.04) will display Screen 3.06 (see Figure 6.1.1.2-1). This screen allows the user to add, change, delete, or view the parameters for the station shown.

```
┌─────────────────────────────────────────────────────────────3.06─┐
│ ┌─────────────────────────────────────────┐ ┌─────────────────┐  │
│ │ Add    Change   Delete   List           │ │ PARAMETERS      │  │
│ └─────────────────────────────────────────┘ └─────────────────┘  │
└──────────────────────────────────────────────────────────────────┘

┌──────┬──────────────────────┬──────────────────────┬────────────┐
│  NY  │ M/A: NYSENECA1        │ W/B: NYCAYUGA1        │ CHEM/PHY   │
└──────┴──────────────────────┴──────────────────────┴────────────┘

┌──────────────────────────────────────────────────────────────────┐
│ Monitoring Design Plan: Upstream/Downstream Study    Year: 1990   │
└──────────────────────────────────────────────────────────────────┘
┌─ Station ────────────────────────────────────────────────────────┐
│ Upstream Station        Agency Code: NYDEC    Station Code: CAYUGA101 │
└──────────────────────────────────────────────────────────────────┘
┌─ Parameters for: Upstream Station ───────────────────────────────┐
│ Code/Name: 00310          / BOD, 5 DAY, 20 DEG C                  │
│ Explanatory Variable: N   Parameter Type: S   Parameter Units:   │
│ ──────── PARAMETER QUARTILES ───────    COUNTS/SEASON -  1   2   3   4 │
│                                         Highest:        5   0   0   0 │
│                      75% - 9            High:           5   0   0   0 │
│                      50% - 6            Low:            5   0   0   0 │
│                      25% - 4            Lowest:         5   0   0   0 │
│                                                                   │
│ NOTES: First year.                                               │
└──────────────────────────────────────────────────────────────────┘
        F1-Help        PGUP-Previous      PGDN-Next      ESC-Exit
```

Figure 6.1.1.2-1   Screen 3.06

The user may use the <PAGE UP> and <PAGE DOWN> keys to display the previous or next parameter, or select the LIST option from the Parameters Menu to view all of the parameters in a selectable list. Only the parameters associated with the current station are displayed.

Note that a selectable list of "Monitoring Design Pollutants" is available to assist the user when adding or making changes. The user must press the <F1> key when the CODE/NAME field is highlighted to access this list.

6.1.2   IMPLEMENTATION DATA

Selecting IMPLEMENTATION DATA from Screen 3.03 will display Screen 3.07 (see Figure 6.1.2-1). This screen is a menu allowing the user to add, change, delete, or view the best management practices (BMPs) for each station in the annual report.

```
┌─────────────────────────────────────────────────────────────3.07─┐
│ ┌─────────────────────────────────────────┐ ┌─────────────────┐  │
│ │ Station   BMP/Cntrl Measures   Cntrl Sources   Pollutants │ │ IMPLEMENTATION │  │
│ └─────────────────────────────────────────┘ └─────────────────┘  │
└──────────────────────────────────────────────────────────────────┘

┌──────┬──────────────────────┬──────────────────────┬────────────┐
│  NY  │ M/A: NYSENECA1        │ W/B: NYCAYUGA1        │ CHEM/PHY   │
└──────┴──────────────────────┴──────────────────────┴────────────┘

┌──────────────────────────────────────────────────────────────────┐
│ Monitoring Design Plan: Upstream/Downstream Study    Year: 1990   │
└──────────────────────────────────────────────────────────────────┘
┌─ Station ────────────────────────────────────────────────────────┐
│ Upstream Station        Agency Code: NYDEC    Station Code: CAYUGA101 │
└──────────────────────────────────────────────────────────────────┘
┌─ BMP/Control Measures for: Upstream Station ─────────────────────┐
│ BMP Name:                                                        │
│ Reporting Units:                     BMP Type:       Goal For:    │
│ Implementation Goal:            Implementation This Year:         │
└──────────────────────────────────────────────────────────────────┘
┌─ Sources Controlled by: ─────────────────────────────────────────┐
│ Source Name:                                                     │
└──────────────────────────────────────────────────────────────────┘
┌─ Pollutants for Source: ─────────────────────────────────────────┐
│ Pollutant Name:                                                  │
└──────────────────────────────────────────────────────────────────┘
```

         Press F1 for Help,   ESC to Return to Previous Screen

Figure 6.1.2-1   Screen 3.07

6.1.2.1   STATION

Selecting STATION from the Chemical/Physical Implementation Menu (Screen 3.07) will display Screen 3.08 (see Figure 6.1.2.1-1). This screen allows the user to view the stations and associated parameters defined in the monitoring plan.

```
┌────────────────────────────────────────────────────────3.08─┐
│ Station   BMP/Cntrl Measures   Cntrl Sources  Pollutants │ STATION │
└──────────────────────────────────────────────────────────────┘

┌────┬──────────────────────────┬─────────────────────┬──────────┐
│ DC │ M/A: DCEPA-01            │ W/B: DC-01-01       │ CHEM/PHY │
└────┴──────────────────────────┴─────────────────────┴──────────┘

┌──────────────────────────────────────────────────────────────┐
│ Monitoring Design Plan: Paired Study          Year: 1991     │
└──────────────────────────────────────────────────────────────┘
┌─ Station ────────────────────────────────────────────────────┐
│ Control Station        Agency Code: 44-3      Station Code: 1 │
└──────────────────────────────────────────────────────────────┘
┌─ BMP/Control Measures for: Control Station ──────────────────┐
│ BMP Name:                                                     │
│ Reporting Units:                              BMP Type:       │
│ Implementation Goal:         Implementation This Year:        │
└──────────────────────────────────────────────────────────────┘
┌─ Sources Controlled by: ─────────────────────────────────────┐
│ Source Name:                                                  │
└──────────────────────────────────────────────────────────────┘
┌─ Pollutants for Source: ─────────────────────────────────────┐
│ Pollutant Name:                                               │
└──────────────────────────────────────────────────────────────┘
```

           F1-Help   PGUP-Previous   PGDN-Next   ESC-Exit

Figure 6.1.2.1-1 Screen 3.08

The user may use the <PAGE UP> and <PAGE DOWN> keys to toggle between the stations.

6.1.2.2 BEST MANAGEMENT PRACTICES/CONTROL MEASURES

Selecting BMP/CNTRL MEASURES from the Chemical/Physical Implementation Menu (Screen 3.07) will display Screen 3.09 (see Figure 6.1.2.2-1). This screen allows the user to add, change, delete, or view the best management practices and control measures for the station shown.

```
┌────────────────────────────────────────────────────────3.09─┐
│ Add   Change   Delete   List   Notes     │ BMP/CONTROL MEASURES │
└──────────────────────────────────────────────────────────────┘

┌────┬──────────────────────────┬─────────────────────┬──────────┐
│ DC │ M/A: DCEPA-01            │ W/B: DC-01-01       │ CHEM/PHY │
└────┴──────────────────────────┴─────────────────────┴──────────┘

┌──────────────────────────────────────────────────────────────┐
│ Monitoring Design Plan: Paired Study          Year: 1991     │
└──────────────────────────────────────────────────────────────┘
┌─ Station ────────────────────────────────────────────────────┐
│ Control Station        Agency Code: 44-3      Station Code: 1 │
└──────────────────────────────────────────────────────────────┘
┌─ BMP/Control Measures for: Control Station ──────────────────┐
│ BMP Name:                                                     │
│ Reporting Units:                              BMP Type:       │
│ Implementation Goal:         Implementation This Year:        │
└──────────────────────────────────────────────────────────────┘
┌─ Sources Controlled by: ─────────────────────────────────────┐
│ Source Name:                                                  │
└──────────────────────────────────────────────────────────────┘
┌─ Pollutants for Source: ─────────────────────────────────────┐
│ Pollutant Name:                                               │
└──────────────────────────────────────────────────────────────┘
```

           F1-Help   PGUP-Previous   PGDN-Next   ESC-Exit

Figure 6.1.2.2-1 Screen 3.09

The user may use the <PAGE UP> and <PAGE DOWN> keys to display the previous or next BMP, or select LIST from the BMP/Control Measures Menu to view all of the BMPs in a selectable list. Only the BMPs associated with the current station are displayed.

Note that a selectable list of "BMP/Control Measures" is available to assist the user when adding or making changes. The user must press the <F1> key when the BMP NAME field is highlighted to access this list.

6.1.2.3 CONTROL SOURCES

Selecting CNTRL SOURCES from the Chemical/Physical Implementation Menu (Screen 3.07) will display Screen 3.10 (see Figure 6.1.2.3-1). This screen allows the user to add, delete, or view the sources controlled by the BMP shown.

```
┌────────────────────────────────────────────────────3.10─┐
│ Add    Delete   List                          │ SOURCES │
└─────────────────────────────────────────────────────────┘

┌────┬─────────────────────────┬──────────────────┬──────────┐
│ DC │ M/A: DCEPA-01           │ W/B: DC-01-01    │ CHEM/PHY │
└────┴─────────────────────────┴──────────────────┴──────────┘

┌─────────────────────────────────────────────────────────┐
│ Monitoring Design Plan: Paired Study         Year: 1991 │
└─────────────────────────────────────────────────────────┘
┌─ Station ───────────────────────────────────────────────┐
│ Control Station        Agency Code: 44-3    Station Code: 1 │
└─────────────────────────────────────────────────────────┘
┌─ BMP/Control Measures for: Control Station ─────────────┐
│ BMP Name:                                               │
│ Reporting Units:                              BMP Type: │
│ Implementation Goal:          Implementation This Year: │
└─────────────────────────────────────────────────────────┘
┌─ Sources Controlled by: ────────────────────────────────┐
│ Source Name:                                            │
└─────────────────────────────────────────────────────────┘
┌─ Pollutants for Source: ────────────────────────────────┐
│ Pollutant Name:                                         │
└─────────────────────────────────────────────────────────┘

        F1-Help      PGUP-Previous     PGDN-Next     ESC-Exit
```

Figure 6.1.2.3-1 Screen 3.10

The user may use the <PAGE UP> and <PAGE DOWN> keys to display the previous or next source, or select LIST from the Sources Menu to view all of the controlled sources in a selectable list. Only the controlled sources associated with the current BMP are displayed.

Note that a selectable list of "BMP Sources Controlled" is available to assist the user when adding controlled sources. The user must press the <F1> key when the SOURCE NAME field is highlighted to access this list.

6.1.2.4 POLLUTANTS

Selecting POLLUTANTS from the Chemical/Physical Implementation Menu (Screen 3.07) will display Screen 3.11 (see Figure 6.1.2.4-1). This screen allows the user to add, change, delete, or view the pollutants to be reported for the controlled source and BMP shown.

```
┌────────────────────────────────────────────────────3.11─┐
│ Add    Change   Delete   List               │ POLLUTANTS │
└─────────────────────────────────────────────────────────┘

┌────┬─────────────────────────┬──────────────────┬──────────┐
│ DC │ M/A: DCEPA-01           │ W/B: DC-01-01    │ CHEM/PHY │
└────┴─────────────────────────┴──────────────────┴──────────┘

┌─────────────────────────────────────────────────────────┐
│ Monitoring Design Plan: Paired Study         Year: 1991 │
└─────────────────────────────────────────────────────────┘
┌─ Station ───────────────────────────────────────────────┐
│ Control Station        Agency Code: 44-3    Station Code: 1 │
└─────────────────────────────────────────────────────────┘
┌─ BMP/Control Measures for: Control Station ─────────────┐
│ BMP Name:                                               │
│ Reporting Units:                              BMP Type: │
│ Implementation Goal:          Implementation This Year: │
└─────────────────────────────────────────────────────────┘
┌─ Sources Controlled by: ────────────────────────────────┐
│ Source Name:                                            │
└─────────────────────────────────────────────────────────┘
┌─ Pollutants for Source: ────────────────────────────────┐
│ Pollutant Name:                                         │
└─────────────────────────────────────────────────────────┘

        F1-Help      PGUP-Previous     PGDN-Next     ESC-Exit
```

Figure 6.1.2.4-1 Screen 3.11

The user may use the <PAGE UP> and <PAGE DOWN> keys to display the previous or next pollutant, or select LIST from the Pollutants Menu to view all of the pollutants in a selectable list. Only the pollutants associated with the current source and BMP are displayed.

Note that a selectable list of "BMP Controlled Source Parameters" is available to assist the user when adding or making changes. The user must press the <F1> key when the POLLUTANT NAME field is highlighted to access this list.

6.2 BIOLOGICAL/HABITAT

Selecting BIOLOGICAL/HABITAT from Screen 3.01 will display Screen 3.22 (see Figure 6.2-1). This screen allows the user to select or add the annual reports for biological and habitat data for the management area.

```
                                                      ─3.22─
 Chemical/Physical    Biological/Habitat      Exit    │ ANNUAL REPORTS │

 ┌──────────────────────────────────────────────────────────┐
 │              ANNUAL REPORTS FOR MANAGEMENT AREAS           │
 ├──────────────────────────────────────────────────────────┤
 │                                                            │
 │          State (FIPS Code):     NY                         │
 │                                                            │
 │          NPS Management Area ID: NYSENECA1                 │
 │                                                            │
 │          305(b) Waterbody ID:    NYCAYUGA1                 │
 │                                                            │
 │          Annual Report Year:    1990                       │
 │ ANNUAL REPORT NOTES:                                       │
 │ This is the pre-implementation year. It was a normal precipitation year. │
 ├──────────────────────────────────────────────────────────┤
 │  (L)ist  (A)dd Report  (N)otes  PGUP-Prev  PGDN-Next   ↵-Accept  ESC-Exit │
 └──────────────────────────────────────────────────────────┘

 ┌──────────────────────────────────────────────────────────┐
 │              NONPOINT SOURCE MANAGEMENT SYSTEM            │
 │                      Version 3.01                         │
 │        Press <F1> for HELP -- Alt+<F1> for Alternate HELP │
 └──────────────────────────────────────────────────────────┘
```

Figure 6.2-1 Screen 3.22

The user may use the <PAGE UP> and <PAGE DOWN> keys to display the previous or next report, or select the LIST option to view all of the annual reports for biological and habitat data in a selectable list.

To add a new annual report, the user must type A. A selectable list of "Monitoring Designs" is available to assist the user. The user must press the <F1> key to access this list. The user may add additional reporting information to the screen by selecting the NOTES option.

Once the user selects a biological and habitat annual report, Screen 3.23 (see Figure 6.2-2) will be displayed. This screen allows the user to select either WATER QUALITY DATA or IMPLEMENTATION DATA.

```
            ANNUAL REPORTS FOR MANAGEMENT AREAS

          State (FIPS Code):      NY

          NPS Management Area ID: NYSENECA1

          305(b) Waterbody ID:    NYCAYUGA1

          Annual Report Year:     1990

ANNUAL REPORT NOTES:
This is the pre-implementation year.  It was a normal precipitation year.
Implementation data for this study are to be taken from the
chemical/physical monitoring reports.  The implementation applies to the
```

```
                 NONPOINT SOURCE MANAGEMENT SYSTEM
                          Version 3.01
              Press <F1> for HELP -- Alt+<F1> for Alternate HELP
```

Figure 6.2-2   Screen 3.23

6.2.1 WATER QUALITY DATA

Selecting WATER QUALITY DATA from Screen 3.23 will display Screen 3.24 (see Figure 6.2.1-1). This screen is a menu allowing the user to add, change, delete, or view water quality parameters for each station in the annual report.

━━━3.24━
```
| Station     Parameters                              | WATER QUALITY |

| NY | M/A: NYSENECA1 | W/B: NYCAYUGA1 | BIO/HABI |

| Monitoring Design Plan: Upstream/Downstream Study        Year: 1990 |

┌ Station ─────────────────────────────────────────────────────────────
| Upstream Station          Agency Code: NYDEC     Station Code: CAYUGAB01 |

┌ Parameters for: Upstream Station ─────────────────────────────────────

Code/Name: 00061        / FLOW, STREAM, INSTANTANEOUS, CFS
Explanatory Variable: C   Parameter Type: S   Parameter Units: CFS

───────── CUTOFF VALUES ─────────    ───────── SCORES/VALUES FOR SEASON ─────────
Abn. High/Normal   Normal/Abn. Low   Season 1  Season 2  Season 3  Season 4
    21                11             N

NOTES: Normal precip.
```
              Press F1 for Help.   ESC to Return to Previous Screen

Figure 6.2.1-1   Screen 3.24

6.2.1.1 STATION

Selecting STATION from the Biological/Habitat Water Quality Menu (Screen 3.24) will display Screen 3.25 (see Figure 6.2.1.1-1). This screen allows the user to view the stations associated with the monitoring plan. After choosing a particular station, WQ parameters may be added to that station for annual reporting.

```
┌──────────────────────────────────────────────────────────3.25┐
│  Station      Parameters                                  │STATION│
└───────────────────────────────────────────────────────────────┘

┌────┬──────────────────────────┬─────────────────────┬──────────┐
│ NY │ M/A: NYSENECA1           │ W/B: NYCAYUGA1      │ BIO/HABI │
└────┴──────────────────────────┴─────────────────────┴──────────┘

┌──────────────────────────────────────────────────────────────┐
│ Monitoring Design Plan: Upstream/Downstream Study   Year: 1990 │
└──────────────────────────────────────────────────────────────┘
┌─ Station ────────────────────────────────────────────────────┐
│ Upstream Station        Agency Code: NYDEC    Station Code: CAYUGAB01 │
└──────────────────────────────────────────────────────────────┘
┌─ Parameters for: Upstream Station ───────────────────────────┐
│                                                               │
│ Code/Name: 00061        / FLOW, STREAM, INSTANTANEOUS, CFS    │
│ Explanatory Variable: C  Parameter Type: S   Parameter Units: CFS │
│                                                               │
│ ───────── CUTOFF VALUES ─────────   ────── SCORES/VALUES FOR SEASON ────── │
│ Abn. High/Normal  Normal/Abn. Low   Season 1  Season 2  Season 3  Season 4 │
│      21               11            N                          │
│                                                               │
│ NOTES: Normal precip.                                         │
└──────────────────────────────────────────────────────────────┘
        F1-Help        PGUP-Previous    PGDN-Next       ESC-Exit
```

Figure 6.2.1.1-1   Screen 3.25

The user may use the <PAGE UP> and <PAGE DOWN> keys to toggle between the stations.

6.2.1.2   PARAMETERS

Selecting PARAMETERS from the Biological/Habitat Water Quality Menu (Screen 3.24) will display Screen 3.26 (see Figure 6.2.1.2-1). This screen allows the user to add, change, delete, or view the parameters for the station shown.

```
┌──────────────────────────────────────────────────────────3.26┐
│  Add    Change    Delete    List                          │PARAMETERS│
└───────────────────────────────────────────────────────────────┘

┌────┬──────────────────────────┬─────────────────────┬──────────┐
│ NY │ M/A: NYSENECA1           │ W/B: NYCAYUGA1      │ BIO/HABI │
└────┴──────────────────────────┴─────────────────────┴──────────┘

┌──────────────────────────────────────────────────────────────┐
│ Monitoring Design Plan: Upstream/Downstream Study   Year: 1990 │
└──────────────────────────────────────────────────────────────┘
┌─ Station ────────────────────────────────────────────────────┐
│ Upstream Station        Agency Code: NYDEC    Station Code: CAYUGAB01 │
└──────────────────────────────────────────────────────────────┘
┌─ Parameters for: Upstream Station ───────────────────────────┐
│                                                               │
│ Code/Name: 00061        / FLOW, STREAM, INSTANTANEOUS, CFS    │
│ Explanatory Variable: C  Parameter Type: S   Parameter Units: CFS │
│                                                               │
│ ───────── CUTOFF VALUES ─────────   ────── SCORES/VALUES FOR SEASON ────── │
│ Abn. High/Normal  Normal/Abn. Low   Season 1  Season 2  Season 3  Season 4 │
│      21               11            N                          │
│                                                               │
│ NOTES: Normal precip.                                         │
└──────────────────────────────────────────────────────────────┘
        F1-Help        PGUP-Previous    PGDN-Next       ESC-Exit
```

Figure 6.2.1.2-1   Screen 3.26

The user may use the <PAGE UP> and <PAGE DOWN> keys to display the previous or next parameter, or select the LIST option from the Parameters Menu to view all of the parameters in a selectable list. Only the parameters associated with the current station are displayed.

Note that a selectable list of "Monitoring Design Pollutants" is available to assist the user when adding or making changes. The user must press the <F1> key when the CODE/NAME field is highlighted to access this list.

6.2.2 IMPLEMENTATION DATA

Selecting IMPLEMENTATION DATA from Screen 3.23 will display Screen 3.27 (see Figure 6.2.2-1). This screen is a menu allowing the user to add, change, delete, or view the best management practices (BMPs) for each station in the annual report.

```
┌───────────────────────────────────────────────────────────────3.27─┐
│ Station   BMP/Cntrl Measures   Cntrl Sources  Pollutants  │ IMPLEMENTATION │
└────────────────────────────────────────────────────────────────────┘

┌─────┬──────────────────────────────┬──────────────────┬──────────┐
│ NY  │ M/A: NYSENECA1               │ W/B: NYCAYUGA1   │ BIO/HABI │
└─────┴──────────────────────────────┴──────────────────┴──────────┘

┌────────────────────────────────────────────────────────────────────┐
│ Monitoring Design Plan: Upstream/Downstream Study      Year: 1990  │
├─ Station ──────────────────────────────────────────────────────────┤
│ Upstream Station         Agency Code: NYDEC    Station Code: CAYUGA801 │
├─ BMP/Control Measures for: Upstream Station ───────────────────────┤
│ BMP Name:                                                          │
│ Reporting Units:                        BMP Type:                  │
│                                         Implementation This Year:  │
├─ Sources Controlled by: ───────────────────────────────────────────┤
│ Source Name:                                                       │
├─ Pollutants for Source: ───────────────────────────────────────────┤
│ Pollutant Name:                                                    │
└────────────────────────────────────────────────────────────────────┘
```

Press F1 for Help,   ESC to Return to Previous Screen

Figure 6.2.2-1   Screen 3.27

6.2.2.1 STATION

Selecting STATION from the Biological/Habitat Implementation Menu (Screen 3.27) will display Screen 3.28 (see Figure 6.2.2.1-1). This screen allows the user to view the stations and associated parameters defined in the monitoring plan.

```
┌───────────────────────────────────────────────────────────────3.28─┐
│ Station   BMP/Cntrl Measures   Cntrl Sources  Pollutants  │ STATION │
└────────────────────────────────────────────────────────────────────┘

┌─────┬──────────────────────────────┬──────────────────┬──────────┐
│ NY  │ M/A: NYSENECA1               │ W/B: NYCAYUGA1   │ BIO/HABI │
└─────┴──────────────────────────────┴──────────────────┴──────────┘

┌────────────────────────────────────────────────────────────────────┐
│ Monitoring Design Plan: Upstream/Downstream Study      Year: 1990  │
├─ Station ──────────────────────────────────────────────────────────┤
│ Upstream Station         Agency Code: NYDEC    Station Code: CAYUGA801 │
├─ BMP/Control Measures for: Upstream Station ───────────────────────┤
│ BMP Name:                                                          │
│ Reporting Units:                        BMP Type:                  │
│                                         Implementation This Year:  │
├─ Sources Controlled by: ───────────────────────────────────────────┤
│ Source Name:                                                       │
├─ Pollutants for Source: ───────────────────────────────────────────┤
│ Pollutant Name:                                                    │
└────────────────────────────────────────────────────────────────────┘
```

F1-Help   PGUP-Previous   PGDN-Next   ESC-Exit

Figure 6.2.2.1-1   Screen 3.28

The user may use the <PAGE UP> and <PAGE DOWN> keys to toggle between the stations.

6.2.2.2 BEST MANAGEMENT PRACTICES/CONTROL MEASURES

Selecting BMP/CNTRL MEASURES from the Biological/Habitat Implementation Menu (Screen 3.27) will display Screen 3.29 (see Figure 6.2.2.2-1). This screen allows the user to add, change, delete, or view the best management practices and control measures for the station shown.

```
┌────────────────────────────────────────────────┬──────────────────────┐
│ Add   Change   Delete   List   Notes            │ BMP/CONTROL MEASURES │
└────────────────────────────────────────────────┴──────────────────────┘

┌────┬──────────────────────────┬──────────────────────┬─────────────┐
│ NY │ M/A: NYSENECA1           │ W/B: NYCAYUGA1       │ BIO/HABI    │
└────┴──────────────────────────┴──────────────────────┴─────────────┘

┌──────────────────────────────────────────────────────────────────────┐
│ Monitoring Design Plan: Upstream/Downstream Study        Year: 1990   │
└──────────────────────────────────────────────────────────────────────┘
┌─ Station ──────────────────────────────────────────────────────────────┐
│ Upstream Station        Agency Code: NYDEC     Station Code: CAYUGA801  │
└──────────────────────────────────────────────────────────────────────┘
┌─ BMP/Control Measures for: Upstream Station ─────────────────────────────┐
│ BMP Name:                                                                │
│ Reporting Units:                          BMP Type:                      │
│                                           Implementation This Year:      │
└──────────────────────────────────────────────────────────────────────┘
┌─ Sources Controlled by: ─────────────────────────────────────────────────┐
│ Source Name:                                                             │
└──────────────────────────────────────────────────────────────────────┘
┌─ Pollutants for Source: ─────────────────────────────────────────────────┐
│ Pollutant Name:                                                         │
└──────────────────────────────────────────────────────────────────────┘

      F1-Help       PGUP-Previous       PGDN-Next        ESC-Exit
```

Figure 6.2.2.2-1   Screen 3.29

The user may use the <PAGE UP> and <PAGE DOWN> keys to display the previous or next BMP, or select LIST from the BMP/Control Measures Menu to view all of the BMPs in a selectable list. Only the BMPs associated with the current station are displayed.

Note that a selectable list of "BMP/Control Measures" is available to assist the user when adding or making changes. The user must press the <F1> key when the BMP NAME field is highlighted to access this list.

6.2.2.3   CONTROL SOURCES

Selecting CNTRL SOURCES from the Biological/Habitat Implementation Menu (Screen 3.27) will display Screen 3.30 (see Figure 6.2.2.3-1). This screen allows the user to add, delete, or view the sources controlled by the BMP shown.

```
┌────────────────────────────────────────────────┬──────────────────────┐
│ Add    Delete   List                            │ SOURCES              │
└────────────────────────────────────────────────┴──────────────────────┘

┌────┬──────────────────────────┬──────────────────────┬─────────────┐
│ NY │ M/A: NYSENECA1           │ W/B: NYCAYUGA1       │ BIO/HABI    │
└────┴──────────────────────────┴──────────────────────┴─────────────┘

┌──────────────────────────────────────────────────────────────────────┐
│ Monitoring Design Plan: Upstream/Downstream Study        Year: 1990   │
└──────────────────────────────────────────────────────────────────────┘
┌─ Station ──────────────────────────────────────────────────────────────┐
│ Upstream Station        Agency Code: NYDEC     Station Code: CAYUGA801  │
└──────────────────────────────────────────────────────────────────────┘
┌─ BMP/Control Measures for: Upstream Station ─────────────────────────────┐
│ BMP Name:                                                                │
│ Reporting Units:                          BMP Type:                      │
│                                           Implementation This Year:      │
└──────────────────────────────────────────────────────────────────────┘
┌─ Sources Controlled by: ─────────────────────────────────────────────────┐
│ Source Name:                                                             │
└──────────────────────────────────────────────────────────────────────┘
┌─ Pollutants for Source: ─────────────────────────────────────────────────┐
│ Pollutant Name:                                                         │
└──────────────────────────────────────────────────────────────────────┘

      F1-Help       PGUP-Previous       PGDN-Next        ESC-Exit
```

Figure 6.2.2.3-1   Screen 3.30

The user may use the <PAGE UP> and <PAGE DOWN> keys to display the previous or next source, or select LIST from the Sources Menu to view all of the controlled sources in a selectable list. Only the controlled sources associated with the current BMP are displayed.

Note that a selectable list of "BMP Sources Controlled" is available to assist the user when adding controlled sources. The user must press the <F1> key when the SOURCE NAME field is highlighted to access this list.

6.2.2.4 POLLUTANTS

Selecting POLLUTANTS from the Biological/Habitat Implementation Menu (Screen 3.27) will display Screen 3.31 (see Figure 6.2.2.4-1). This screen allows the user to add, change, delete, or view the pollutants to be reported for the controlled source and BMP shown.

```
                                                             3.31
  Add     Change    Delete    List                       POLLUTANTS

  NY | M/A: NYSENECA1            | W/B: NYCAYUGA1       |  BIO/HABI

  Monitoring Design Plan: Upstream/Downstream Study         Year: 1990
  Station
  Upstream Station          Agency Code: NYDEC      Station Code: CAYUGAB01
  BMP/Control Measures for: Upstream Station
  BMP Name:
  Reporting Units:                            BMP Type:
                                     Implementation This Year:

  Sources Controlled by:
  Source Name:

  Pollutants for Source:
  Pollutant Name:


        F1-Help       PGUP-Previous       PGDN-Next       ESC-Exit
```

Figure 6.2.2.4-1   Screen 3.31

The user may use the <PAGE UP> and <PAGE DOWN> keys to display the previous or next pollutant, or select LIST from the Pollutants Menu to view all of the pollutants in a selectable list. Only the pollutants associated with the current source and BMP are displayed.

Note that a selectable list of "BMP Controlled Source Parameters" is available to assist the user when adding or making changes. The user must press the <F1> key when the POLLUTANT NAME field is highlighted to access this list.

7. REPORTS

The REPORTS selection allows the user to generate standard NPSMS reports. A single, several, or all management areas may be selected to be included in the report. Once a report is generated, the user may view it on screen, print it, or save it to a text file. Selecting REPORTS from the Main Menu (Screen 0.00) will display the Reports Menu as shown in Figure 7-1.

```
                                                               ┌──0.00─┐
┌─────────────────────────────────────────────────────────┬───┴───────┤
│ Management   Design   Annual   Reports   Graphics   Options   Quit │ NPSMS │
├──────────────────────────────┬──────────────────────────┴───────────┤
│                              │ Project Description     │
│                              │ Problem Pollutants      │
│                              │ Implementation Plan     │
│                              │ Project Funding Reports │
│                              ├─────────────────────────┤
│                              │ Monitoring Stations     │
│                              │ Monitoring Parameters   │
│                              │ Land Use/Monitoring Season │
│                              ├─────────────────────────┤
│                              │ Annual Report Summary   │
│                              │ Annual Report Detail    │
│                              │ Water Quality Parameters│
│                              │ Implementation Progress │
│                              │ Station vs Reference    │
│                              │ Cross Reference Exceptions│
│                              ├─────────────────────────┤
│                              │ View Previous Report(s) │
├──────────────────────────────┴─────────────────────────────┤
│              NONPOINT SOURCE MANAGEMENT SYSTEM              │
│                       Version 3.01                         │
│        Press <F1> for HELP -- Alt+<F1> for Alternate HELP  │
└────────────────────────────────────────────────────────────┘
```

Figure 7-1

Once the user selects a report, a selectable list will be displayed allowing the user to choose the management areas to be included in the report. The user must "tag" his selection by using the space bar or pressing the <F5> key to "tag" all of the selections.

Once the selections have been made, the user must press the <ENTER> key. A "processing" message will be displayed while the report is being prepared. After each report is generated, the following menu (see Figure 7-2) appears allowing the user to view, print, or save the completed report. Each report that is generated is immediately saved to a disk file under a default name. The report may be later retrieved and viewed or printed. Each time the *same* report is generated the default report file is overwritten. To permanently save a specific report the user may select the "Name Report File" option.

```
                                                               ┌──0.00─┐
┌─────────────────────────────────────────────────────────┬───┴───────┤
│ Management   Design   Annual   Reports   Graphics   Options   Quit │ NPSMS │
├──────────────────────────────┬──────────────────────────┴───────────┤
│                              │ Project Description     │
│                              │ Problem Pollutants      │
│                              │ Implementation Plan     │
│                              │ Project Funding Reports │
│                              ├─────────────────────────┤
│                              │ Monitori┌────────────────┐│
│                              │ Monitori│ DISPLAY OPTIONS││
│                              │ Land Use├────────────────┤│
│                              ├─────────│ Screen View    ││
│                              │ Annual R│ Print Report   ││
│                              │ Annual R│ Name Report File││
│                              │ Water Qu└────────────────┘│
│                              │ Implementation Progress │
│                              │ Station vs Reference    │
│                              │ Cross Reference Exceptions│
│                              ├─────────────────────────┤
│                              │ View Previous Report(s) │
├──────────────────────────────┴─────────────────────────────┤
│              NONPOINT SOURCE MANAGEMENT SYSTEM              │
│                       Version 3.01                         │
│        Press <F1> for HELP -- Alt+<F1> for Alternate HELP  │
└────────────────────────────────────────────────────────────┘
```

Figure 7-2

There are seven reports available to the user. Each of these reports is described in the following sections.

7.1 *PROJECT DESCRIPTION*

The Project Description Report lists information for the selected projects including state, project name and id, lead and supporting agencies, and the complete project narrative.

7.2 *PROBLEM ASSESSMENT*

The Problem Assessment Report lists the problem pollutants for the selected management areas. Additionally, the contribution sources which include the NPS, point, and background are also listed. The report is sorted by state, management area, and waterbody.

7.3 *IMPLEMENTATION PLAN*

The Implementation Plan Summary lists information about the best management practices (BMP) for the selected management areas. Each BMP, controlled source, pollutant, and impaired use is listed. The report is sorted by state, management area, waterbody, and BMP ID.

7.4 *PROJECT FUNDING REPORTS*

The four Project Funding reports show information about the source, level, use, and year of funding for each watershed project. Each of the four reports lists funding information sorted in a different way to provide comprehensive reports about project funding.

7.5 *MONITORING STATIONS*

The Monitoring Stations Summary lists information about the study stations for the selected management areas. The information includes the monitoring design, the station identification code, station type, and drainage area. The report lists information for chemical/physical and biological/habitat data. The Monitoring Stations Summary is sorted by state, management area, and waterbody.

7.6 *MONITORING PARAMETERS*

The Monitoring Station Parameters Report lists the parameters assigned to each station for the selected management areas. Both chemical/physical and biological/habitat parameters are included in the report for each station. Additional information includes parameter type, reporting units, explanatory variable, and quartile values (for chemical/physical data) or cutoff values (for biological/habitat data). The report is sorted by state, management area, waterbody, and station.

7.7 *LAND USE/MONITORING SEASON*

The Land Use/Monitoring Season Report shows detailed information about the land use and drainage area entered for each monitoring station. The report also lists the designated monitoring seasons and the beginning and ending dates for each selected watershed project.

7.8 *ANNUAL REPORT SUMMARY*

The Annual Report Summary lists information about each selected Annual Report that is entered in the system. The information includes the Management Area, Waterbody ID, data type (Chem/Phy or Bio/Hab), monitoring design, number of WQ parameters, number of Implementation BMPs, and the complete Annual Report narrative.

7.9 ANNUAL REPORT DETAIL

The Annual Report Detail lists detailed information about each selected Annual Report that is entered in the system. The information includes the Management Area, Waterbody ID, data type (Chem/Phy or Bio/Hab), and year. Each Water Quality parameter and monitoring result is listed with other information about the parameter. Additionally, the implementation progress for each BMP is listed along with the sources and pollutants for the BMP.

7.10 WATER QUALITY PARAMETERS

The Water Quality Parameters Summary lists water quality parameters entered in the annual reports for the selected management areas. Both chemical/physical and biological/habitat data is included in the report. For chemical/physical parameters, the report shows the counts per season and the quartile values entered in the monitoring plan. For biological/habitat parameters, the report shows the scores/values per season and the cutoff values or indices as entered in the monitoring plan. The report is sorted by state, management area, waterbody, and station.

7.11 IMPLEMENTATION PROGRESS

The Implementation Progress Report lists detailed information about each Annual Report BMP entered for the Management Area. It shows the amount and percentage of progress made each year of reporting for each BMP entered in the Management File versus the BMP entered in the Annual Report. The report is sorted by management area, BMP name, station, and year.

7.12 STATION vs REFERENCE

The Biological/Habitat Station vs Reference Station Report lists the biological/habitat annual report parameters for each management area selected. Only biological and habitat data is included in the report. Each parameter for the first station (control or upstream) is printed and compared against the matching parameter in the second station (study or downstream). Additionally, the parameter is also compared against the matching monitoring design parameter's reasonable attainment value. Note that for single station designs, only the second percentage is performed. The report is sorted by state, management area, and waterbody.

7.13 CROSS REFERENCE EXCEPTIONS

The Cross Reference Exceptions Report is a three part summary report showing exceptions for pollutants and parameters. Part One lists the management area pollutants that have not been entered in the best management practice (BMP). Part Two lists monitoring design parameters that have not been entered in the annual report for WQ parameters. Part Three lists BMP/pollutants that have not been entered in the annual report for implementation data. Both chemical/physical and biological/habitat data is included in the report. The Exceptions Report is sorted by state and management area.

7.14 VIEW PREVIOUS REPORTS

The VIEW PREVIOUS REPORT(S) option displays a list of all available report files saved on disk. The user may choose any report and then select any of the display options from the menu shown in Figure 7-2.

8. GRAPHICS

The NPSMS software provides the capabilities to generate sophisticated graphs and charts to better interpret and analyze the large volume of data entered into the system. All of the graphic functions are available under the GRAPHICS option on the main menu.

The NPSMS graphics generate high-resolution EGA and VGA graphs and take full advantage of the video equipment installed on a particular computer. The only requirement for running graphics is that an EGA or VGA video adaptor/monitor must be installed on the computer.

In addition to displaying graphics on the monitor, the NPSMS Graphics Module is also capable of printing the graph to several different printer devices including laser printers, dot-matrix printers, plotters, and HP PaintJets. The printer drivers can take full advantage of features on the printer such as printer density, portrait/landscape orientation, and plotter pen colors. Graphic images may also be stored in a file on the hard disk for later use.

Selecting GRAPHICS from the Main Menu (Screen 0.00) will display a "processing" message while the Graphics Module is being loaded. After the module is loaded, Screen 5.01 (see Figure 8-1) will be displayed.

```
                                                              ┌──5.01─┐
┌──────────────────────────────────────────────────────────┐│       │
│ Management   Design   Annual   Reports   Graphics   Options   Quit │ NPSMS │
└──────────────────────────────────────────────────────────┘└───────┘

┌──────────────────────────────────────────────────────────────────────┐
│                                                                        │
│                                                                        │
│                   ┌──────────────────────────────┐                     │
│                   │    GRAPHICS SELECTION MENU    │                     │
│                   ├──────────────────────────────┤                     │
│                   │ Problem Pollutants - (MF)     │                     │
│                   │ Biological vs Habitat Plot    │                     │
│                   │ Habitat/Biological Trend      │                     │
│                   │ Chemical/Physical Trend       │                     │
│                   │ Management Area Funding        │                     │
│                   │ Graphics Setup                 │                     │
│                   │ Quit - Return to Main Menu     │                     │
│                   └──────────────────────────────┘                     │
│                                                                        │
└──────────────────────────────────────────────────────────────────────┘

┌──────────────────────────────────────────────────────────────────────┐
│                   NONPOINT SOURCE MANAGEMENT SYSTEM                     │
│                           Version 3.01                                 │
│            Press <Fl> for HELP -- Alt+<Fl> for Alternate HELP          │
└──────────────────────────────────────────────────────────────────────┘
```
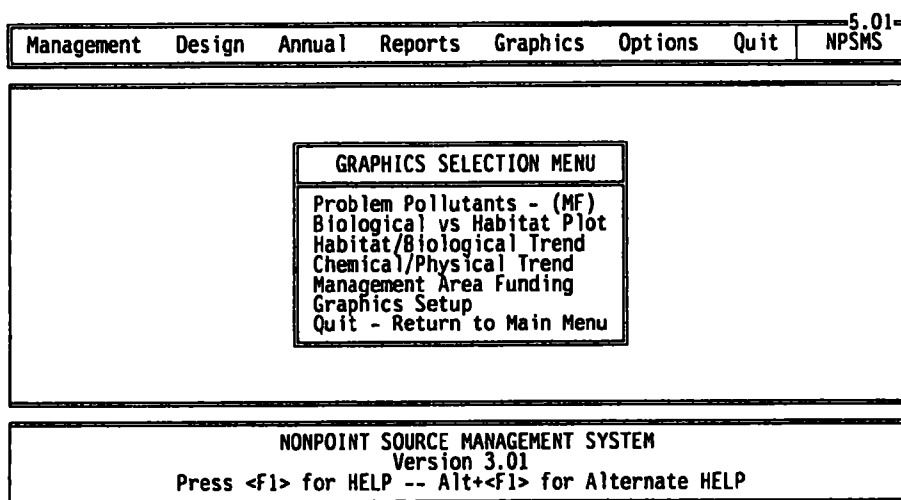
Figure 8-1   Screen 5.01

8.1   GRAPHICS SETUP

The GRAPHICS SETUP option allows the user to define information needed to print and plot the graphs. The definitions include the output type: laser printer, dot-matrix printer, plotter, or HP Paintjet, the printer port, the print density, and the page orientation. Once the user selects GRAPHICS SETUP from the Graphics Menu, the Graphics Setup Menu as shown in Figure 8.1-2 will be displayed.

```
┌─────────────────────────────────────────────────────────────5.01─┐
│ Management   Design   Annual   Reports   Graphics   Options   Quit │ NPSMS │
└───────────────────────────────────────────────────────────────────┘

  ┌───────────────────────────────────────────────────────────────┐
  │  ┌──────────── Select Output Device for Graphics ──────────┐   │
  │  │                                                          │   │
  │  │            ┌──────────────────┐                          │   │
  │  │            │ Laser Printer    │                          │   │
  │  │            │ Dot Matrix       │                          │   │
  │  │            │ HP Plotter       │                          │   │
  │  │            │ PaintJet         │                          │   │
  │  │            │ File Output      │                          │   │
  │  │            └──────────────────┘                          │   │
  │  │                                                          │   │
  │  │   Print Image to an HP or Compatible Laser Printer       │   │
  │  └──────────────────────────────────────────────────────────┘   │
  └───────────────────────────────────────────────────────────────┘

  ┌───────────────────────────────────────────────────────────────┐
  │              NONPOINT SOURCE MANAGEMENT SYSTEM                  │
  │                      Version 3.01                              │
  │        Press <F1> for HELP -- Alt+<F1> for Alternate HELP       │
  └───────────────────────────────────────────────────────────────┘
```
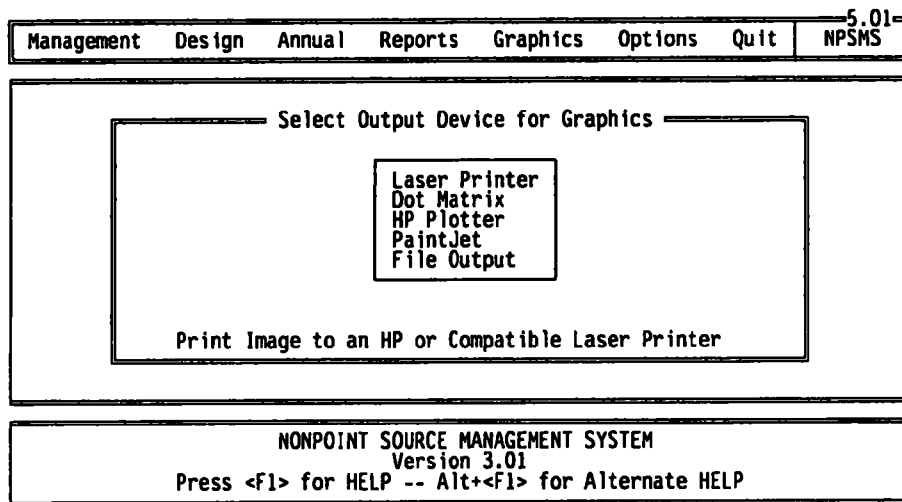
Figure 8.1-2

The Graphics Setup Menu contains five menu options as described below.

8.1.1 LASER PRINTER

The LASER PRINTER option allows the user to print the graph to an HP or compatible laser printer. Once the user selects LASER PRINTER, Figure 8.1.1-1 will be displayed.

```
┌─────────────────────────────────────────────────────────────5.01─┐
│ Management   Design   Annual   Reports   Graphics   Options   Quit │ NPSMS │
└───────────────────────────────────────────────────────────────────┘

  ┌───────────────────────────────────────────────────────────────┐
  │  ┌──────────────── Printer Port Selection ────────────────┐    │
  │  │                                                         │    │
  │  │                  ┌────────┐                             │    │
  │  │                  │ LPT1   │                             │    │
  │  │                  │ LPT2   │                             │    │
  │  │                  │ COM1   │                             │    │
  │  │                  │ COM2   │                             │    │
  │  │                  └────────┘                             │    │
  │  │                                                         │    │
  │  │     Select the Port for the Printing Device Selected    │    │
  │  └─────────────────────────────────────────────────────────┘   │
  └───────────────────────────────────────────────────────────────┘

  ┌───────────────────────────────────────────────────────────────┐
  │              NONPOINT SOURCE MANAGEMENT SYSTEM                  │
  │                      Version 3.01                              │
  │        Press <F1> for HELP -- Alt+<F1> for Alternate HELP       │
  └───────────────────────────────────────────────────────────────┘
```
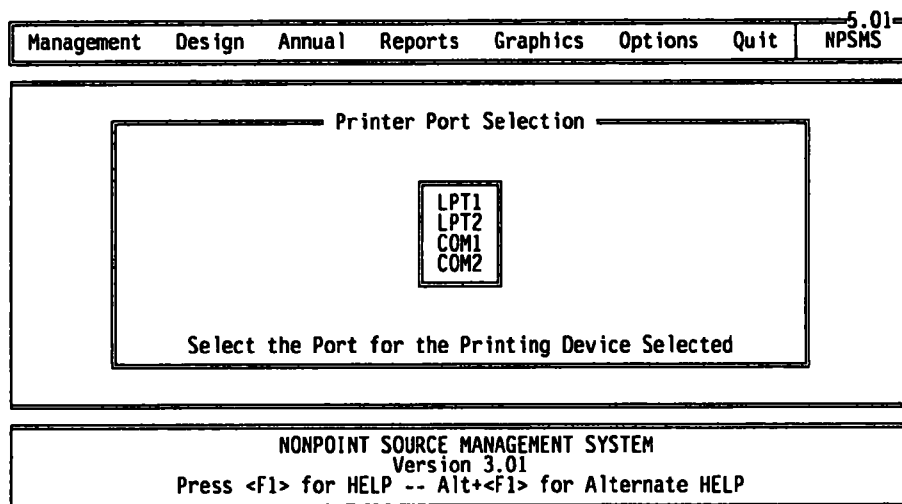
Figure 8.1.1-1

The user must highlight the printer port to be used and press the <ENTER> key. A Laser Printer Setup Screen as shown in Figure 8.1.1-2 will be displayed.

```
┌──────────── Laser Printer Setup ═══════════╗
│  Orientation (L=Landscape, P=Portrait): P   │
│                                             │
│  Dot Density (75, 100, 150, 300 dpi):   150 │
│                                             │
│  Reverse Printing (white on black)?:    N   │
│                                             │
│  Page Eject After Printing Graph?:      Y   │
│                                             │
│  Left Margin (in dots at 300 dpi):      100 │
│                                             │
│  Top Margin (in dots at 300 dpi):       200 │
├─────────────────────────────────────────────┤
│  F1-Help        ( ↵)-Accept      ESC-Cancel │
└─────────────────────────────────────────────┘
```

```
┌──────────────────────────────────────────────┐
│         NONPOINT SOURCE MANAGEMENT SYSTEM      │
│                 Version 3.01                   │
│   Press <F1> for HELP -- Alt+<F1> for Alternate HELP │
└──────────────────────────────────────────────┘
```

Figure 8.1.1-2

The following list describes each of the sections on the Laser Printer Setup Screen that the user may change.

ORIENTATION   This allows the user to select either landscape or portrait printing mode.

DOT DENSITY   This allows the user to select the dot density in dots-per-inch. When a larger number is used the image on the screen is printed smaller.

REVERSE PRINTING   This allows the user to reverse the printing (white text on a black background).

PAGE EJECT   This allows the user to eject the page after printing. By selecting **N**, a graph may be overlaid on another graph or printed on the same page.

LEFT MARGIN   This allows the user to specify the beginning margin from the left of the page.

TOP MARGIN   This allows the user to specify the beginning margin from the top of the page.

8.1.2 DOT MATRIX

The DOT MATRIX option allows the user to print the graph to a selected dot matrix printer. Once the user selects DOT MATRIX, Figure 8.1.1-1 will be displayed.

The user must highlight the printer port to be used and press the <ENTER> key. A Dot Matrix Printer Setup Screen as shown in Figure 8.1.2-1 will be displayed.

```
┌──────────────────────────────────────────────────────────────5.01─┐
│ Management   Design   Annual   Reports   Graphics   Options   Quit │ NPSMS │
├────────────────────────────────────────────────────────────────────┤
│  ┌─────────────────── Dot Matrix Printer Setup ──────────────────┐  │
│  │  Printer Type: EPSON FX                                       │  │
│  │  Orientation (L=Landscape, P=Portrait): L                     │  │
│  │  Page Eject After Printing Graph?:       N                    │  │
│  │                                                               │  │
│  │  F1-Help          ( ↵ )-Accept        ESC-Cancel             │  │
│  └───────────────────────────────────────────────────────────────┘  │
│                                                                      │
├──────────────────────────────────────────────────────────────────────┤
│            NONPOINT SOURCE MANAGEMENT SYSTEM                         │
│                      Version 3.01                                   │
│          Press <F1> for HELP -- Alt+<F1> for Alternate HELP         │
└──────────────────────────────────────────────────────────────────────┘
```

Figure 8.1.2-1

The following list describes each of the sections on the Dot Matrix Printer Setup Screen that the user may change.

PRINTER TYPE   This allows the user to select the printer driver for the make and model of the printer selected. Note that a selectable list is available to assist the user. The user must press the <F1> key when the PRINTER TYPE field is highlighted to access this list.

ORIENTATION   This allows the user to select either landscape or portrait printing mode (provided the printer supports this option).

PAGE EJECT   This allows the user to eject the page after printing. By selecting **N**, a graph may be overlaid on another graph or printed on the same page.

8.1.3 HP PLOTTER

The HP PLOTTER option allows the user to plot the graph to an HP 7475A or compatible plotter. Once the user selects HP PLOTTER, Figure 8.1.1-1 will be displayed.

The user must highlight the port to be used for the plotter and press the <ENTER> key. An HP Plotter Setup Screen Setup Screen as shown in Figure 8.1.3-1 will be displayed.

```
┌──────────────────────────────────────────────────────────────5.01─┐
│ Management   Design   Annual   Reports   Graphics   Options   Quit │ NPSMS │
├────────────────────────────────────────────────────────────────────┤
│  ┌───────────────────── HP Plotter Setup ─────────────────────┐    │
│  │  Orientation (L=Landscape, P=Portrait): L                  │    │
│  │  Page Eject After Plotting Graph?:      Y                   │    │
│  │  Width of Plot in X Direction (mms):    325                │    │
│  │                                                            │    │
│  │  Color Pen Wid    Color Pen Wid    Color Pen Wid           │    │
│  │    1   1   3        6   5   3       11   5   3             │    │
│  │    2   2   3        7   6   3       12   4   3             │    │
│  │    3   6   3        8   1   3       13   3   7             │    │
│  │    4   3   7        9   2   3       14   2   3             │    │
│  │    5   4   3       10   3   7       15   1   3             │    │
│  │                                                            │    │
│  │  F1-Help          ( ↵ )-Accept        ESC-Cancel          │    │
│  └────────────────────────────────────────────────────────────┘    │
├──────────────────────────────────────────────────────────────────────┤
│            NONPOINT SOURCE MANAGEMENT SYSTEM                         │
│                      Version 3.01                                   │
│          Press <F1> for HELP -- Alt+<F1> for Alternate HELP         │
└──────────────────────────────────────────────────────────────────────┘
```
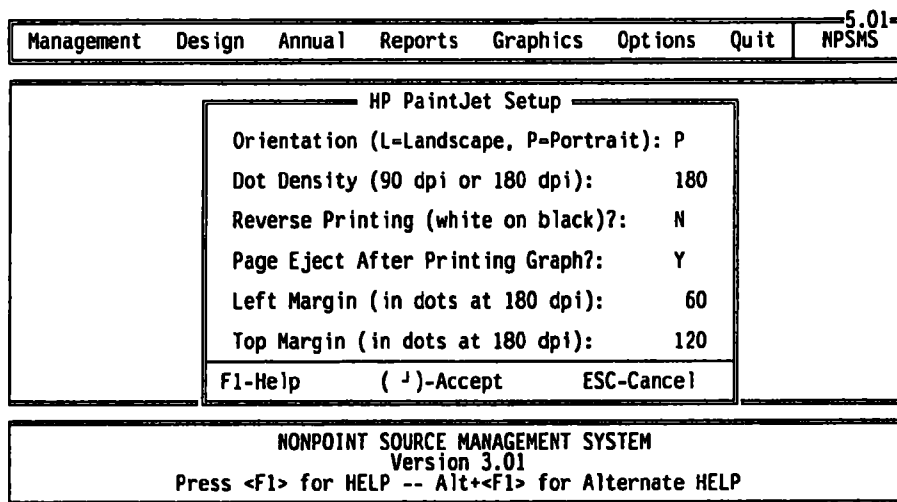
Figure 8.1.3-1

The following list describes each of the sections on the HP Plotter Setup Screen that the user may change.

ORIENTATION This allows the user to select either landscape or portrait printing mode.

PAGE EJECT This allows the user to eject the page after plotting (provided the plotter supports this option). By selecting **N**, a graph may be overlaid on another graph or plotted on the same page.

WIDTH OF PLOT This allows the user to define the width of the plotted output in either landscape or portrait mode. The plotting begins at the bottom, left position of the page on the plotter bed. The width is determined from the left to the right of the page in portrait mode and from the bottom to the top of the page in landscape mode.

PEN (Number) This allows the user to select the plotter pen number (1-n) which will correspond to the screen color (0-15). See the chart below for the screen colors:

0 - BLACK	8 - GREY
1 - BLUE	9 - LIGHT BLUE
2 - GREEN	10 - LIGHT GREEN
3 - CYAN	11 - LIGHT CYAN
4 - RED	12 - LIGHT RED
5 - MAGENTA	13 - LIGHT MAGENTA
6 - BROWN	14 - YELLOW
7 - WHITE	15 - LIGHT WHITE

WID (Pen Width) This allows the user to select the width of the plotter pen in millimeters (mm) which is usually printed on the top of each pen (P3 = 3mm).

8.1.4 PAINTJET

The PAINTJET option allows the user to print the graph to an HP PaintJet printer. Once the user selects PAINTJET, Figure 8.1.1-1 will be displayed.

The user must highlight the printer port to be used and press the <ENTER> key. An HP PaintJet Setup Screen as shown in Figure 8.1.4-1 will be displayed.

```
┌──────────────────────────────────────────────────5.01─┐
│ ┌──────────────────────────────────────────────┐ ┌────┐│
│ │ Management  Design  Annual  Reports  Graphics  Options  Quit │ NPSMS ││
│ └──────────────────────────────────────────────┘ └────┘│
│     ┌────────────── HP PaintJet Setup ─────────────┐     │
│     │ Orientation (L=Landscape, P=Portrait):  P    │     │
│     │ Dot Density (90 dpi or 180 dpi):      180    │     │
│     │ Reverse Printing (white on black)?:     N    │     │
│     │ Page Eject After Printing Graph?:       Y    │     │
│     │ Left Margin (in dots at 180 dpi):      60    │     │
│     │ Top Margin (in dots at 180 dpi):      120    │     │
│     ├──────────────────────────────────────────────┤     │
│     │ F1-Help        ( ┘)-Accept        ESC-Cancel │     │
│     └──────────────────────────────────────────────┘     │
│ ┌──────────────────────────────────────────────────────┐ │
│ │           NONPOINT SOURCE MANAGEMENT SYSTEM            │ │
│ │                    Version 3.01                       │ │
│ │    Press <F1> for HELP -- Alt+<F1> for Alternate HELP │ │
│ └──────────────────────────────────────────────────────┘ │
└────────────────────────────────────────────────────────┘
```

Figure 8.1.4-1

The following list describes each of the sections on the HP PaintJet Setup Screen that the user may change.

ORIENTATION	This allows the user to select either landscape or portrait printing mode.
DOT DENSITY	This allows the user to select the dot density in dots-per-inch. When a larger number is used the image on the screen is printed smaller.
REVERSE PRINTING	This allows the user to reverse the printing (white text on a black background).
PAGE EJECT	This allows the user to eject the page after printing. By selecting **N**, a graph may be overlaid on another graph or printed on the same page.
LEFT MARGIN	This allows the user to specify the beginning margin from the left of the page in dots-per-inch at 180 dpi.
TOP MARGIN	This allows the user to specify the beginning margin from the top of the page in dots-per-inch at 180 dpi.

8.1.5 FILE OUTPUT

The FILE OUTPUT option allows the user to output the graph to a PCX or HPGL format disk file. Once the user selects FILE OUTPUT, a Disk File Output Setup Screen as shown in Figure 8.1.5-1 will be displayed.

```
┌────────────────────────────────────────────────┬──5.01─┐
│ Management  Design  Annual  Reports  Graphics  Options  Quit │ NPSMS │
└────────────────────────────────────────────────┴───────┘

  ┌──────────────────────────────────────────────────────────┐
  │      ┌──────── Disk File Output Setup ────────┐           │
  │      │                                         │          │
  │      │ Output Type (P=PCX, H=HPGL): H          │          │
  │      │                                         │          │
  │      │ Append to File if File Already Exists?: N │        │
  │      │                                         │          │
  │      │ Output File Name:                       │          │
  │      │ (Leave Blank for Default File Names)    │          │
  │      │                                         │          │
  │      ├─────────────────────────────────────────┤          │
  │      │ F1-Help        ( ┘ )-Accept    ESC-Cancel │        │
  │      └─────────────────────────────────────────┘          │
  └──────────────────────────────────────────────────────────┘

  ┌──────────────────────────────────────────────────────────┐
  │            NONPOINT SOURCE MANAGEMENT SYSTEM               │
  │                    Version 3.01                           │
  │       Press <F1> for HELP -- Alt+<F1> for Alternate HELP   │
  └──────────────────────────────────────────────────────────┘
```

Figure 8.1.5-1

The following list describes each of the sections on the Disk File Output Setup Screen that the user may change.

OUTPUT TYPE   This allows the user to select either PCX or HPGL files to be created. The software that will be used to import must support one of these file types.

APPEND TO USE This allows the user to capture multiple screen images to the same file.

OUTPUT FILE   This allows the user to enter the name of the output file. The default output file name is different for each graph and depending on the OUTPUT TYPE (P or H) will have a different extension (.PCX or .HPG). If an output file name is entered, it will be used for each graph and will overwrite the previous file, if any. The output file name should be a complete DOS file name including extension (XXXXXXXX.XXX).

There are currently five graphs available in the NPSMS. Each of these graphs is described in the following sections.

8.2 PROBLEM POLLUTANTS

The Problem Pollutants Graph displays the relative contributions for each problem pollutant defined for the management area. The graph is plotted using horizontal cluster bars with pollutant names and the total contributions. Each cluster in the graph for a given pollutant shows the percentage contribution for the nonpoint, source, and background.

8.3 BIOLOGICAL VS HABITAT PLOT

The Biological vs Habitat Graph plots the SCORE/VALUES of each season for two specified annual report parameters against each other to compare them. Typically, a biological parameter would be plotted against a habitat parameter for comparison, but any two parameters may be selected as appropriate. Each season is displayed using a different symbol and all years for each parameter are plotted using a different color.

8.4 HABITAT/BIOLOGICAL TREND

The Habitat/Biological Trend Graph displays a trend analysis for a specified biological/habitat annual report parameter showing the changes in the SCORE/VALUES over the monitoring period. The scores for both stations are plotted using a different color. A statistic option is also available which shows the mean and standard deviation for the graph.

8.5 CHEMICAL/PHYSICAL TREND

The Chemical/Physical Trend Graph displays a trend analysis for a specified chemical/physical annual report parameter showing the changes in the COUNTS over the monitoring period. The counts for all seasons are displayed in a vertically stacked graph for both monitoring stations.

8.6 MANAGEMENT AREA FUNDING

The Management Area Funding Graph displays the funding amounts categorized by the use of the funding. Each category is displayed using a horizontal stacked bar with the use of funding as a label. The funding total for each category is displayed with the funding name. Additionally, a grand total for the entire management area is also displayed.

Once the user selects a graph from the Graphics Selection Menu, a selectable list(s) will be displayed allowing the user to choose the desired information to be plotted on the graph.

After the graph is displayed, the following keys are made available to the user.

C(ONNECT)

Pressing a C will toggle the connection lines between the plotted points on and off.

G(RID)

Pressing a G will toggle the grid lines on and off.

L(IST)

Pressing a L will display the first selectable list for the current graph.

<ESC>

Pressing the <ESC> key will display the Graphics Selection Menu.

<ALT> + <F10> - PRINT

Pressing the <ALT> key and the <F10> key will print the current graphics screen to a laser printer via the LPT1 port.

Note that the <F1> and <ALT> + <F1> keys are not available while a graph is displayed.

9. OPTIONS

The OPTIONS menu selection allows the user to configure the NPSMS to suit his particular needs, backup and restore the NPSMS databases, import and export data by floppy diskettes to and from EPA headquarters and the NPSMS users, convert data to ASCII format for export to SAS, reorganize the databases to keep the NPSMS at peak performance level, delete state information, maintain system tables, and utilize any word processor or text editor.

Selecting OPTIONS from the Main Menu (Screen 0.00), will display the following menu.

```
                                                          ─0.00─
┌─────────────────────────────────────────────────────┬───────┐
│ Management   Design   Annual   Reports   Graphics   Options   Quit │ NPSMS │
├──────────────────────────────────────────┬──────────┴───────┤
│                                           │ Printer Setup    ├──┐
│                                           │ Select Screen Colors │
│                                           │ Hardware Setup   │
│                                           │ Name Word Processor │
│                                           ├──────────────────┤
│                                           │ Backup Data Files │
│                                           │ Restore Data Files │
│                                           │ Import NPSMS Data │
│                                           │ Export NPSMS Data │
│                                           │ Convert Data for SAS │
│                                           ├──────────────────┤
│                                           │ Maintenance      │
│                                           │ Delete Entire State │
│                                           ├──────────────────┤
│                                           │ Update System Tables │
│                                           │ Word Processor   │
└───────────────────────────────────────────┴──────────────────┘
┌──────────────────────────────────────────────────────────────┐
│                NONPOINT SOURCE MANAGEMENT SYSTEM               │
│                       Version 3.01                            │
│        Press <F1> for HELP -- Alt+<F1> for Alternate HELP     │
└──────────────────────────────────────────────────────────────┘
```

Figure 9-1

There are nine selections available to the user within OPTIONS. Each of these selections is described in the following sections.

9.1 SYSTEM CONFIGURATION

The SYSTEM CONFIGURATION options enables the user to customize the NPSMS operation by specifying the colors to be used on the NPSMS screens, the type of printer being used, and the hardware capabilities. The first four selections for the Options menu are for System Configuration, as shown in Figure 9.1-1.
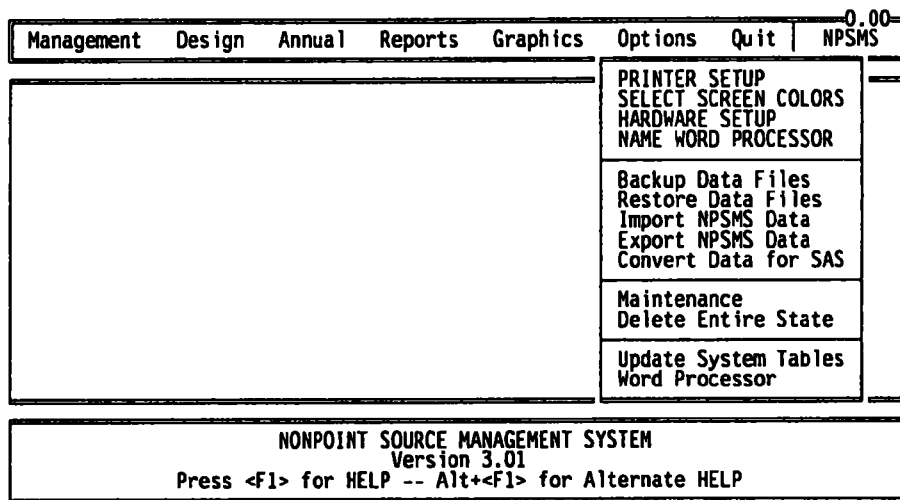
```
┌──────────────────────────────────────────────────────────┬─0.00─┐
│ Management  Design  Annual  Reports  Graphics  Options  Quit │ NPSMS │
├──────────────────────────────────────────┬──────────────────┴──┬──┤
│                                           │ PRINTER SETUP        │  │
│                                           │ SELECT SCREEN COLORS │  │
│                                           │ HARDWARE SETUP       │  │
│                                           │ NAME WORD PROCESSOR  │  │
│                                           ├──────────────────────┤  │
│                                           │ Backup Data Files    │  │
│                                           │ Restore Data Files   │  │
│                                           │ Import NPSMS Data    │  │
│                                           │ Export NPSMS Data    │  │
│                                           │ Convert Data for SAS │  │
│                                           ├──────────────────────┤  │
│                                           │ Maintenance          │  │
│                                           │ Delete Entire State  │  │
│                                           ├──────────────────────┤  │
│                                           │ Update System Tables │  │
│                                           │ Word Processor       │  │
├───────────────────────────────────────────┴──────────────────────┤
│              NONPOINT SOURCE MANAGEMENT SYSTEM                    │
│                     Version 3.01                                 │
│          Press <F1> for HELP -- Alt+<F1> for Alternate HELP      │
└──────────────────────────────────────────────────────────────────┘
```

Figure 9.1-1

9.1.1 PRINTER SETUP

The PRINTER SETUP option allows the user to specify the type of printer connected to
the PC. Once the user selects the PRINTER SETUP selection, the menu shown below will
appear.

```
┌──────────────────────────────────────────────────────────┬─0.00─┐
│ Management  Design  Annual  Reports  Graphics  Options  Quit │ NPSMS │
├───────────────────────────────────┬──────────────────────┴──────┤
│                                    │ Printer Setup               │
│      ═══════ P R I N T E R    S E T U P ═══════Colors            │
│         Current Printer:  HP LASERJET        essor              │
│            Printer Port:  COM1                                  │
│                                              les               │
│         ┌─ AVAILABLE PRINTERS ─┐             iles              │
│         │ EPSON - Wide 132     │             ata               │
│         │ EPSON COMPAT. - 80   │             ata               │
│         │ EPSON COMPAT. - 132  │             or SAS            │
│         │ HP LASERJET          │                               │
│         │ IBM PROPRINTER - 80  │                               │
│         │ IBM PROPRINTER - 132 │             State             │
│         │ OKIDATA - Narrow 80  │                               │
│         │ OKIDATA - Wide 133   │             Tables            │
│         │ OTHER PRINTER        │                               │
│         └──────────────────────┘                               │
│                                                                 │
│         ┘-Select Printer | F10-Save | ESC-Cancel                │
└──────────────────────────────────────────────────────────────────┘
```

Figure 9.1.1-1

The user must highlight the type of printer and press <ENTER>, a selectable list will be
displayed with various port selections as shown in Figure 9.1.1-2.

Note that if OTHER PRINTER is selected, the user will be prompted for the name of the
printer and the escape codes that the printer needs to designate compressed and normal
print.
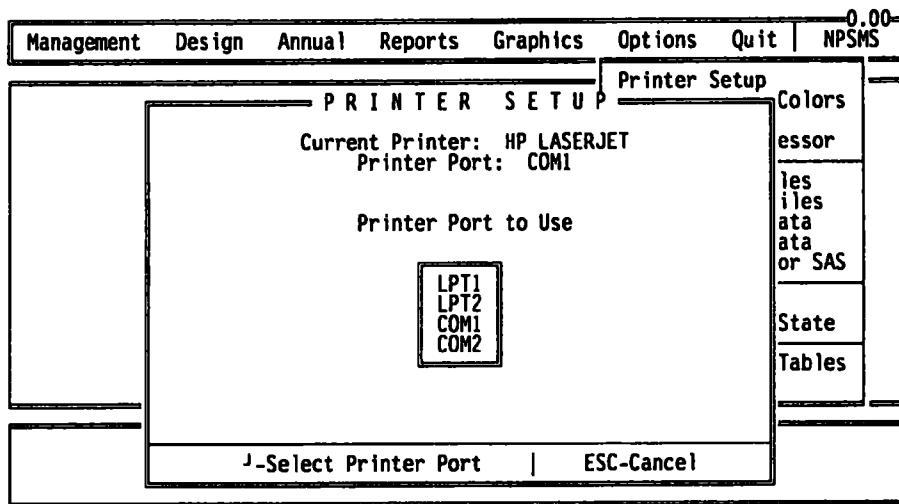
Figure 9.1.1-2

The user must highlight the correct printer port and press the <ENTER> key. Generally, if the printer is a dot matrix printer, LPT1 is used. If the printer is a laser or daisy wheel printer, COM1 is used. The printer manual should be consulted if the user is unsure of the printer port to select.

Note that if COM1 or COM2 is selected, the user should be sure that the correct baud rate, etc. is set for the printer. The DOS Mode Command should be used to initialize the port.

Once the user has selected the type of printer and printer port, the <F10> key must be pressed to save the selection.

9.1.2 SELECT SCREEN COLORS

The SELECT SCREEN COLORS option allows the user to specify the colors used on the NPSMS screens to meet his individual tastes. Once the user selects the SELECT SCREEN COLORS menu option, the screen shown in Figure 9.1.2-1 will be displayed.

Note that for monochrome video displays, the colors are fixed and can *NOT* be changed.
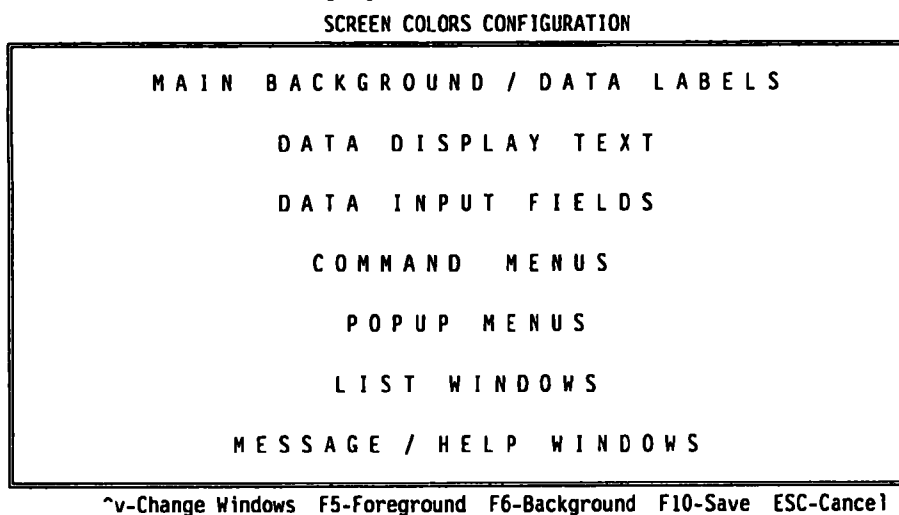
Figure 9.1.2-1

The user must use the arrow keys to select the screen section to be changed. The following list describes each of the screen sections that may be changed.

MAIN BACKGROUND/DATA LABELS   The main screen and data labels.

DATA DISPLAY TEXT   Information contained in the various NPSMS databases when viewed in display only mode.

DATA INPUT FIELDS   Information contained in the various NPSMS databases while performing data entry.

COMMAND MENUS   The menus at the top and bottom of the screens.

POP-UP MENUS   Special purpose, pop-up or secondary menus.

LIST WINDOWS   Display of data in list format.

MESSAGE/HELP WINDOWS   Help windows and various messages.

The <F5> key will change the foreground color and the <F6> key will change the background color. Once the color selections have been made, the user must press the <F10> key to save the changes or the <ESC> key to cancel all changes.

Note that because of the many possible color combinations it is usually easiest for the user to change one screen at a time and then check to see how the new color looks with other screen colors.

9.1.3 HARDWARE SETUP

The HARDWARE SETUP option allows the user to setup several environment options for the NPSMS. Once the user selects HARDWARE SETUP, the Computer Configuration Screen displays choices for floppy drive, video display, and port configurations as shown in Figure 9.1.3-1.

```
========================COMPUTER'S CONFIGURATION========================
  DOS Version: 4.0    Base RAM: 640K    Display: COLOR    Current Mode: CGA
  Total Drive C: 42,366,976    Available on C: 29,609,984    Floppy Drives: 2
  Number of Parallel Ports: 1    Number of Serial Ports: 1    Games Ports: 1
  ----------------------------DRIVE CONFIGURATION----------------------------
      Drive to Use            Drive Capacity            Format to Use
     ┌──────────┐            ┌──────────┐            ┌──────────┐
     │ A: Floppy│            │ 360 KB   │            │ 360 KB   │
     │ B: Floppy│            │ 720 KB   │            │ 720 KB   │
     │ Other    │            │ 1.2 MB   │            │ 1.2 MB   │
     └──────────┘            │ 1.4 MB   │            │ 1.4 MB   │
                             └──────────┘            └──────────┘

  ----DISPLAY CONFIGURATION----        -------CURRENT PORT CONFIGURATION-------
       Video Display            Current Printer Port    Current Comm Port
     ┌──────────┐               ┌──────┐               ┌──────┐
     │ Color    │               │ COM1 │               │ COM1 │
     │ Monochrome│              └──────┘               └──────┘
     └──────────┘            (Change Ports in Printer or Comm. Setup)
  ------------------------------------------------------------------------
    RETURN-Make Selection      F10-Save/Exit      ESC-Previous Window/Cancel
========================================================================
    Use Drive A: for 5¼" 360 KB, 1.2 MB, or 3½" 720 KB, 1.44 MB Diskettes
```

Figure 9.1.3-1

At the top of the Computer Configuration Screen, current information about the computer is displayed: the DOS version number, the computer's base memory, the total hard disk size of drive C:, the available space on drive C:, the number of ports, etc.

The following list describes each of the sections on the Computer Configuration Screen that the user may change.

DRIVE TO USE	Allows the user to select the floppy drive that the NPSMS should use to backup/restore and import/export data.
DRIVE CAPACITY	Determines the type of drive selected with DRIVE TO USE.
FORMAT TO USE	Allows the user to select the format of the DRIVE TO USE. If drive is high-density, either high-density (1.2, 1.44) or low-density (360, 720) may be used.
VIDEO DISPLAY	Allows the user to select whether the display should be in color or monochrome. (Note that screen color can *NOT* be changed in monochrome display.)
CURRENT PRINTER PORT	Displays the printer port the user selected in PRINTER setup.
CURRENT COMM PORT	Displays the communication port the user selected in TELECOM setup to use for communications with the mainframe.

The user must press the <ENTER> key at each window to accept the selection made or to move to the next window. Once the selections have been made, the user must press the <F10> key to save the changes or the <ESC> key at the DRIVE TO USE window to cancel any changes.

9.1.4 TELECOM SETUP (not available at this time)

The TELECOM SETUP option enables the user to establish the parameters with which the user's PC can communicate with the EPA Mainframe. Once the TELECOM SETUP menu option is selected, the screen shown in Figure 9.1.4-1 will be displayed.

Note that TELECOMMUNICATION options for NPSMS are not available in the current version and will be included at a later release. The following screens and information may be changed when implemented.

```
┌─────────────T E L E C O M M U N I C A T I O N S   S E T U P═══════════────┐
│                                                                           │
│   Type Connect    Com Port to Use    Telephone Number                     │
│   ┌──────────┐    ┌──────────┐    ┌──────────────────────────────┐        │
│   │ COLAN    │    │ COM1     │    │                              │        │
│   │ DIAL-UP  │    │ COM2     │    └──────────────────────────────┘        │
│   │ DISKETTE │    │ COM3     │      3090 User ID                          │
│   │ DIRECT   │    │ COM4     │                                            │
│   └──────────┘    └──────────┘    ┌──────────────────┐                    │
│                                   │                  │                    │
│                                   └──────────────────┘                    │
│                                                                           │
│    Baud Rate        Parity          Data Bits        Stop Bits            │
│   ┌────────┐    ┌────────┐       ┌────┐           ┌────┐                   │
│   │ 1200   │    │ NONE   │       │ 8  │           │ 0  │                   │
│   │ 2400   │    │ EVEN   │       │ 7  │           │ 1  │                   │
│   │ 9600   │    │ ODD    │       └────┘           └────┘                   │
│   └────────┘    └────────┘                                                 │
│                                                                           │
├───────────────────────────────────────────────────────────────────────────┤
│   RETURN-Make Selection      F10-Save/Exit      ESC-Previous Window/Cancel │
└───────────────────────────────────────────────────────────────────────────┘
             Connection to Mainframe is via Modem
```

Figure 9.1.4-1

The following list describes each of the sections on the Telecommunications Setup Screen that the user may change.

TYPE CONNECT	This controls the method in which the NPSMS establishes the communications link between the user's PC and the EPA Mainframe.
COMM PORT TO USE	This tells the NPSMS which communications port to use on the PC in communicating with the EPA Mainframe.
TELEPHONE NUMBER	This is the telephone number to use if the user is using a modem (DIAL-UP) to communicate with the EPA Mainframe.
USER ID	This is the way in which the user identifies himself when communicating with the EPA Mainframe. If the user is unsure of his ID, he should contact the system manager.
BAUD RATE PARITY DATA BITS STOP BITS	These parameters describe the speed and transfer method with which the PC communicates with the EPA Mainframe. These are usually governed by the type of modem the user is using and by the parameters already established on the mainframe. If the user is unsure of the settings, he should contact his system manager.

The user must press the <ENTER> key at each window to accept the selection made or to move to the next window. Once the selections have been made, the user must press the <F10> key to save the changes or the <ESC> key at the TYPE CONNECT window to cancel any changes.

9.1.5 NAME WORD PROCESSOR

The NAME WORD PROCESSOR option allows the user to enter the name of the word processor or editor (WORD for Microsoft Word, WP for Word Perfect, etc.) to be used from within the NPSMS without exiting the program. Once the user selects the NAME WORD PROCESSOR option, the screen shown in Figure 9.1.6-1 will be displayed.

```
                                                              ─0.00─
  Management   Design   Annual   Reports   Graphics   Options   Quit │ NPSMS

 ┌────────────────────────────────────────┐ Printer Setup
 │                                         │ Select Screen Colors
 │                                         │ Hardware Setup
 │                                         │ Name Word Processor
 │      ┌──────────────────Word Processor Setup────────────────────┐
 │      │                                                          │
 │      │ Enter Name of Word Processor:     Microsoft Word         │
 │      │                                                          │
 │      │ Drive Ltr to Find WP (Optional):  C                      │
 │      │                                                          │
 │      │ Path Name to Find WP (Optional):  \WORD                  │
 │      │                                                          │
 │      │ Command to Start Word Processor:  WORD                   │
 │      ├──────────────────────────────────────────────────────────┤
 │      │     F1-Help            ⌐-Accept          ESC-Cancel      │
 │      └──────────────────────────────────────────────────────────┘
 └─────────────────────────────────────────┘

 ┌──────────────────────────────────────────────────────────────┐
 │              NONPOINT SOURCE MANAGEMENT SYSTEM                 │
 │                      Version 3.01                             │
 │        Press <F1> for HELP -- Alt+<F1> for Alternate HELP      │
 └──────────────────────────────────────────────────────────────┘
```

Figure 9.1.6-1

The user must enter the command to start the word processor or text editor. If the drive and path name where the word processor is located is different then the current drive, the user must also enter the letter of the drive and the path name. The name of the word processor is a descriptive field only and can be left blank if desired.

9.2 BACKUP DATA FILES

The BACKUP DATA FILES selection allows the user to backup the NPSMS data on the hard disk to floppy diskettes for recovery or archive purposes. The user must specify the backup drive and format type in HARDWARE SETUP. Once the BACKUP DATA FILES option is selected, the screen shown in Figure 9.2-1 will be displayed.

```
                                                              ─0.00─
  Management   Design   Annual   Reports   Graphics   Options   Quit │ NPSMS

 ┌──────────────────────────────────────────┐ Printer Setup
 │                                           │ Select Screen Colors
 │  ┌─────────────────── N P S M S   B A C K U P ──────────────────┐
 │  │                                                              │
 │  │                                                              │
 │  │  LAST BACKUP:  Date - 05/20/92   Time - 10:00:00   Disks Used - 1  │
 │  │                                                              │
 │  │                 Backup Will Use Drive - A:                   │
 │  │                                                              │
 │  │                 Format of Drive is - 360                     │
 │  │                                                              │
 │  │              Total 360 Diskettes Needed - 1                  │
 │  │                                                              │
 │  │                                                              │
 │  ├──────────────────────────────────────────────────────────────┤
 │  │                 Backup          Cancel                       │
 │  └──────────────────────────────────────────────────────────────┘
```

Figure 9.2-1

The number of diskettes needed for the backup will be displayed on the Backup Screen. These diskettes *MUST* be formatted and empty *BEFORE* using BACKUP DATA.

The user is given the opportunity to continue the backup or return to the Options Menu. If the user elects to continue, the NPSMS copies the databases to diskette, prompting the user to insert diskettes.

When the backup is complete, the NPSMS provides the user with information that should be placed on the external label on the backup diskettes. An example of this information is shown in Figure 9.2-2.

```
                                                           ┌──0.00─┐
 │ Management   Design   Annual   Reports   Graphics │ Options   Quit │ NPSMS │
 ┌══════════════════════════════════════════════════┐ Printer Setup      ══┐
 ┌────────────────────────────────────────────────── Select Screen Colors   │
 ┌─────────────────── N P S M S   B A C K U P ═══════════════════════════────┐



         LABEL YOUR BACKUP DISKETTE WITH THE FOLLOWING:

                       NPSMS BACKUP DISK

         Date: 06/08/92      Time: 14:50:48      Disk No: 1




 ├─────────────────────────── OK ──────────────────────────────┤
```

Figure 9.2-2

The user must use the RESTORE DATA function to restore the backup files.

9.3 RESTORE DATA FILES

The RESTORE DATA FILES selection allows the user to restore data from floppy diskettes to the hard disk. Note that the RESTORE DATA function will only copy files previously created by the BACKUP DATA FILES function. Selecting the RESTORE DATA FILES menu option will generate the screen shown in Figure 9.3-1.

```
                                                           ┌──0.00─┐
 │ Management   Design   Annual   Reports   Graphics │ Options   Quit │ NPSMS │
 ┌══════════════════════════════════════════════════┐ Printer Setup      ══┐
 ┌────────────────────────────────────────────────── Select Screen Colors   │
 ┌─────────────────── N P S M S   R E S T O R E ════════════════════────┐

  LAST BACKUP:  Date = 05/20/92   Time = 10:00:00    Disks Used = 1

                    Source Drive is - A:

                   Format of Drive is - 360

                 Target Directory is - C:\NPS31

      WARNING - Restore Will Overwrite Existing NPSMS Data Files!

      Please Make a BACKUP of Your Current Data Before Restoring

 ├──────────────────── Restore      Cancel ─────────────────────┤
```

Figure 9.3-1

The RESTORE DATA option will warn the user that the function will overwrite all existing NPSMS data. The user should make a backup of the current data before restoring data. If the user continues the restore, the NPSMS copies the databases to the hard disk from the diskettes created during a previous backup.

9.4 IMPORT/EXPORT

The IMPORT/EXPORT selections allows for NPSMS data to be transferred by floppy diskettes to and from EPA headquarters and NPSMS users. Once the user selects either IMPORT or EXPORT from the Options Menu (as shown in Figure 9.4-1), the Import or Export screen will be displayed.

```
                                                         0.00
 Management   Design   Annual   Reports   Graphics   Options   Quit │ NPSMS

                                                  Printer Setup
                                                  Select Screen Colors
                                                  Hardware Setup
                                                  Name Word Processor

                                                  Backup Data Files
                                                  Restore Data Files
                                                  Import NPSMS Data
                                                  Export NPSMS Data
                                                  Convert Data for SAS

                                                  Maintenance
                                                  Delete Entire State

                                                  Update System Tables
                                                  Word Processor


              NONPOINT SOURCE MANAGEMENT SYSTEM
                     Version 3.01
         Press <F1> for HELP -- Alt+<F1> for Alternate HELP
```

Figure 9.4-1

9.4.1 IMPORT NPSMS DATA

The IMPORT NPSMS DATA selection allows the user to import data such as system table updates from floppy diskettes to the hard disk. Note that the IMPORT function will only copy files previously created by the NPSMS EXPORT function. Selecting the IMPORT NPSMS DATA option will display the following screen.

```
                                                                    ┌──0.00─┐
┌──────────────────────────────────────────────────────┬───────────┴─┐     │
│ Management   Design   Annual   Reports   Graphics │ Options   Quit │ NPSMS │
└───────────────────────────────────────────────────┬────┴─────────────────┘
┌──────────────────────────────────────────────────┐│Printer Setup      │──┐
│                                                   ││Select Screen Colors│  │
│                              IMPORT ════│          │Hardware Setup     │  │
┌──────────────────────────────────────────────────┴──┴───────────────────┐
│                                                                          │
│    Last Export:  Date = 05/14/92   Time = 16:45:10    Disks Used = 1     │
│                                                                          │
│                       Import Will Use Drive - A:                         │
│                                                                          │
│                       Format of Drive is - 1.2                           │
│                                                                          │
│                  Target Directory is - C:\NPSV3\IMPORT\                   │
│                                                                          │
│       WARNING - Import Will Overwrite Existing NPSMS Data Files!         │
│                                                                          │
│       Please Make a Backup of Your Current Data Before Importing         │
│                                                                          │
│                  Continue Import?  (Y)es/(N)o/<ESC>                       │
│                                                                          │
└──────────────────────────────────────────────────────────────────────────┘
```

Figure 9.4.1-1

The IMPORT option will warn the user that the function will overwrite existing NPSMS data. The user should make a backup of the current data before importing data. If the user continues the import, the NPSMS copies the files to the hard disk from the diskettes created during a previous export.

9.4.2 EXPORT NPSMS DATA

The EXPORT NPSMS DATA selection allows the user to export data from the hard disk to floppy diskettes for transferring to EPA Headquarters. The user must specify the backup drive and format type in HARDWARE SETUP. Selecting the EXPORT NPSMS DATA option will display the following state table.

```
                                                                    ┌──0.00─┐
┌──────────────────────────────────────────────────────┬───────────┴─┐     │
│ Management   Design   Annual   Reports   Graphics │ Options   Quit │ NPSMS │
└───────────────────────────────────────────────────┬────┴─────────────────┘
┌──────────────────────────────────────────────────┐│Printer Setup      │──┐
│                                                   ││Select Screen Colors│  │
│                                                   ││Hardware Setup     │  │
│                                                   ││Name Word Processor│  │
┌──────────────────────────────────────────────────┴──┴───────────────────┐
│                    SELECT THE STATE YOU WISH TO EXPORT                    │
│                                                                          │
│   State Code                    Lead Agency                  EPA Region  │
│                                                                          │
│ ▓NY▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓NY DEC▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓2▓▓▓▓▓▓▓▓▓▓  │
│                                                                          │
│                                                                          │
│                                                                          │
│                                                                          │
│                                                                          │
│                                                                          │
│   - Move highlight bar │ ESC - Exit w/o selection │ <CR> - Exit w/ selection│
│                        ══════Top of List═════                            │
└──────────────────────────────────────────────────────────────────────────┘
```

Figure 9.4.2-1

The user must select a single state to send to EPA Headquarters for reporting. Note that if more than one state is to be sent, each must be exported separately. Once the user selects a state to be exported, a screen as shown in Figure 9.4.2-2 will be displayed.
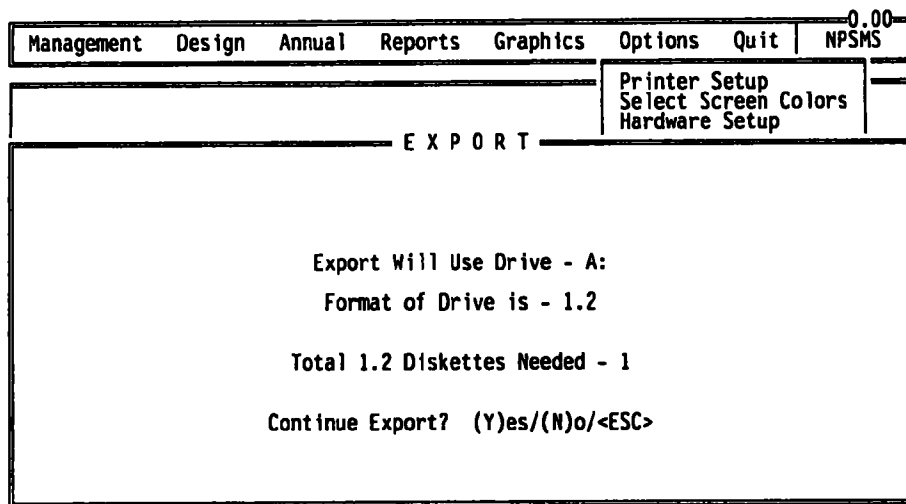
```
┌────────────────────────────────────────────────────0.00─┐
│ Management  Design  Annual  Reports  Graphics │ Options  Quit │ NPSMS │
├───────────────────────────────────────────────┬──────────────────────┬──┤
│                                                │ Printer Setup        │──│
│                                                │ Select Screen Colors │  │
│                              ═══ E X P O R T ══│ Hardware Setup       │  │
├────────────────────────────────────────────────┴──────────────────────┘  │
│                                                                           │
│                                                                           │
│              Export Will Use Drive - A:                                   │
│              Format of Drive is - 1.2                                     │
│                                                                           │
│              Total 1.2 Diskettes Needed - 1                               │
│                                                                           │
│              Continue Export?  (Y)es/(N)o/<ESC>                           │
│                                                                           │
│                                                                           │
└───────────────────────────────────────────────────────────────────────────┘
```

Figure 9.4.2-2

The number of diskettes needed for the export will be displayed on the screen. These diskettes *MUST* be formatted and empty *BEFORE* using EXPORT.

The user is given the opportunity to continue the export or return to the Import/Export Menu. If the user elects to continue, the NPSMS copies the files to diskette, prompting the user to insert diskettes.

When the export is complete, the NPSMS provides the user with information that should be placed on the external label on the export diskettes. An example of this information is shown in Figure 9.4.2-3.

```
┌────────────────────────────────────────────────────0.00─┐
│ Management  Design  Annual  Reports  Graphics │ Options  Quit │ NPSMS │
├───────────────────────────────────────────────┬──────────────────────┬──┤
│                                                │ Printer Setup        │──│
│                                                │ Select Screen Colors │  │
│                              ═══ E X P O R T ══│ Hardware Setup       │  │
├────────────────────────────────────────────────┴──────────────────────┘  │
│                                                                           │
│              Please Label Your Export Diskettes                           │
│              With the Following Information:                              │
│                       NPSMS EXPORT                                        │
│         Date: 06/05/92    Time: 10:55:50      NPSMS: 1                     │
│                                                                           │
│                   Press any key to continue                               │
│                                                                           │
└───────────────────────────────────────────────────────────────────────────┘
```
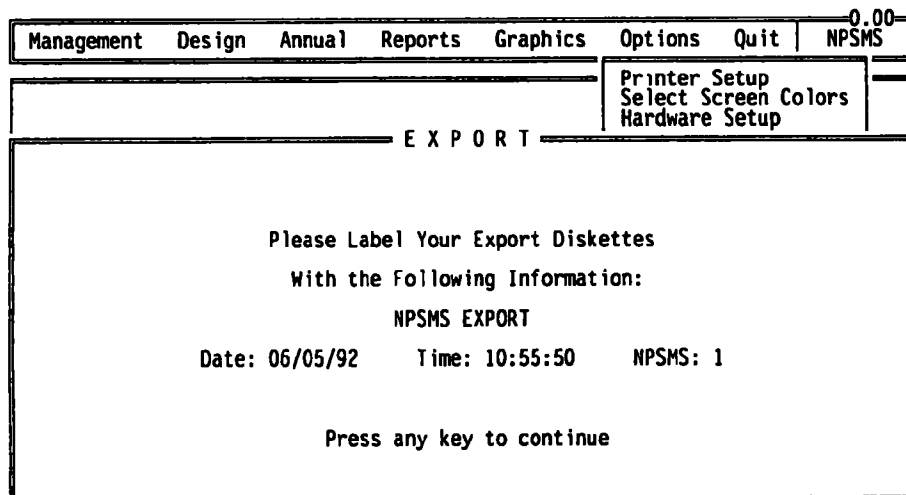
Figure 9.4.2-3

9.5 CONVERT DATA FOR SAS

The CONVERT DATA FOR SAS selection allows all of the data in the system to be converted to ASCII files so the data may be transferred to the EPA mainframe by telecommunications for use with mainframe SAS.
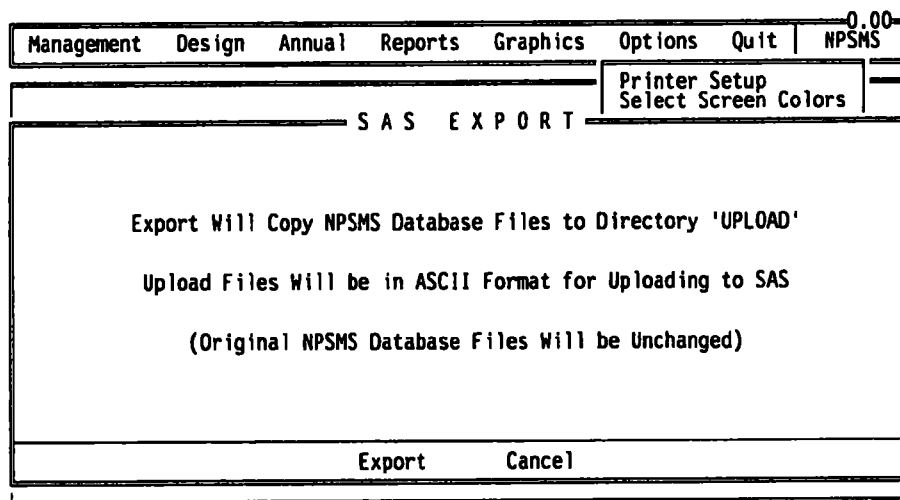
```
                                                            0.00
  Management   Design   Annual   Reports   Graphics   Options   Quit |  NPSMS

                                                    | Printer Setup
  ┌─────────────────────────────────┐               | Select Screen Colors
  ┌───────────────────── S A S   E X P O R T ─────────────────────┐
  │                                                                 │
  │                                                                 │
  │    Export Will Copy NPSMS Database Files to Directory 'UPLOAD'  │
  │                                                                 │
  │    Upload Files Will be in ASCII Format for Uploading to SAS    │
  │                                                                 │
  │         (Original NPSMS Database Files Will be Unchanged)       │
  │                                                                 │
  │                                                                 │
  │                                                                 │
  │                    Export        Cancel                        │
  └─────────────────────────────────────────────────────────────────┘
```

Figure 9.5-1

Once the user selects the EXPORT TO SAS option from the Options Menu, a message will appear giving the user the option of continuing as shown in Figure 9.5-1. If the user elects to continue, the NPSMS data will be converted to ASCII files and placed in a directory called \UPLOAD.

9.6 MAINTENANCE

The MAINTENANCE selection reorganizes the NPSMS database indexes in order to improve system performance. NPSMS MAINTENANCE should be performed periodically. The MAINTENANCE selection also removes any deleted records from the files. Once the user selects MAINTENANCE, a message and progress bar will be displayed as shown in Figure 9.6-1. The user has no active role during this operation.

```
                                                            0.00
  Management   Design   Annual   Reports   Graphics   Options   Quit |  NPSMS

                                                    | Printer Setup
  ┌─────────────────────────────────┐               | Select Screen Colors
  ┌─────────────────── M A I N T E N A N C E ───────────────────┐
  │                                                               │
  │                                                               │
  │        ┌───────────────────────────────────────────┐         │
  │        │ Performing Database Maintenance, Please Wait │        │
  │        └───────────────────────────────────────────┘         │
  │                                                               │
  │                   - COMPLETED -                               │
  │        ┌──────────────────────────────────┐                  │
  │        │ ████████████▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒ │ ( 54%)              │
  │        │ 0          50         100%  │                        │
  │        └──────────────────────────────────┘                  │
  │                                                               │
  └───────────────────────────────────────────────────────────────┘
```
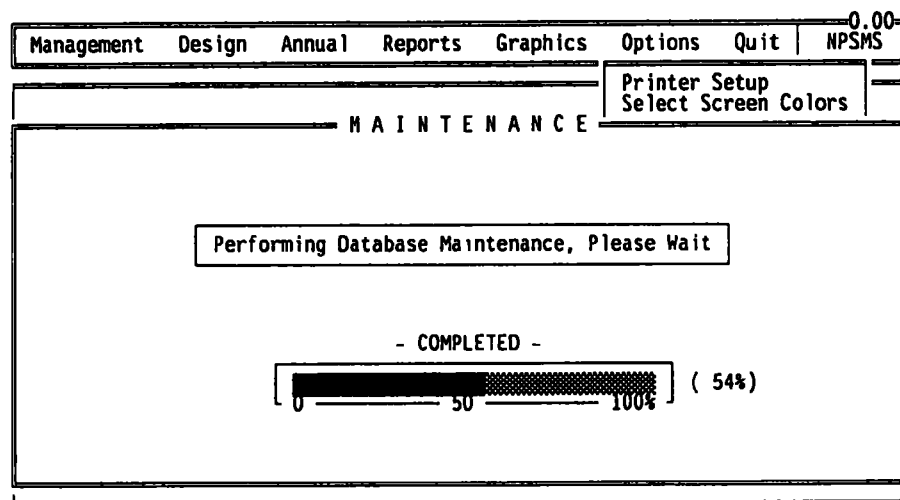
Figure 9.6-1

9.7 DELETE ENTIRE STATE

The DELETE ENTIRE STATE selection enables the user to delete a state and all the associated records from the NPSMS files including management area information, BMP information, monitoring design information, and all annual reports entered for the state. Once the user selects DELETE ENTIRE STATE from the Options Menu, the screen in Figure 9.7-1 will be displayed.

```
                                                              ═0.00═
 Management   Design   Annual   Reports   Graphics │ Options   Quit │ NPSMS
┌─────────────────────────────────────────────────┬────────────────────────┬──
│                                                  │ Printer Setup          │
│                                                  │ Select Screen Colors   │
│                                                  │ Hardware Setup         │
│                                                  │ Name Word Processor    │
│  ┌────────────────────────────────────────────────────────────────────┐
│  │            Enter the State You Wish to Delete                       │
│  ├────────────────────────────────────────────────────────────────────┤
│  │                                                                     │
│  │          State:                                                     │
│  │          Lead Agency:                                               │
│  │          EPA Region:                                                │
│  │                                                                     │
│  ├────────────────────────────────────────────────────────────────────┤
│  │   Press F1-List Current States    ENTER( ┘ )-Accept   ESC-Cancel Delete │
│  └───────────────────────────────────────────────┬────────────────────────┐
│                                                  │ Word Processor         │
└──────────────────────────────────────────────────┴────────────────────────┘
┌─────────────────────────────────────────────────────────────────────┐
│                 NONPOINT SOURCE MANAGEMENT SYSTEM                     │
│                         Version 3.01                                 │
│          Press <F1> for HELP -- Alt+<F1> for Alternate HELP          │
└─────────────────────────────────────────────────────────────────────┘
```

Figure 9.7-1

The user must enter the state to be deleted or press the <F1> key for a selectable list of the current states in the database. Once the user has selected the state to be deleted, a screen will be displayed showing the number of records associated with the state. See the example in Figure 9.7-2.

```
                                                              ═0.00═
 Management   Design   Annual   Reports   Graphics │ Options   Quit │ NPSMS
┌─────────────────────────────────────────────────┬────────────────────────┬──
│                                                  │ Printer Setup          │
│                                                  │ Select Screen Colors   │
│                           ══ STATE DELETE FUNCTION ══ Hardware Setup       │
│  ┌────────────────────────────────────────────────────────────────────┐
│  │                                                                     │
│  │  STATE: NY          AGENCY: DEC              REGION:  2             │
│  │                                                                     │
│  ├───────────── RECORDS ASSOCIATED WITH THIS STATE ───────────────────┤
│  │                                                                     │
│  │  Management Area:  1    Monitoring Data:  1    Annual Reports:   2  │
│  │                                                                     │
│  ├────────────────────────────────────────────────────────────────────┤
│  │   F10-Delete State and Associated Records     ESC-Cancel/Return to Menu │
│  └────────────────────────────────────────────────────────────────────┘
└─────────────────────────────────────────────────────────────────────┘
┌─────────────────────────────────────────────────────────────────────┐
│                 NONPOINT SOURCE MANAGEMENT SYSTEM                     │
│                         Version 3.01                                 │
│          Press <F1> for HELP -- Alt+<F1> for Alternate HELP          │
└─────────────────────────────────────────────────────────────────────┘
```

Figure 9.7-2

The user must press the <F10> key to delete all the records associated with the state or the <ESC> key to cancel the deletion.

Note that the DELETE ENTIRE STATE function will perform database maintenance to permanently remove the deleted records from the NPSMS databases.

9.8 UPDATE SYSTEM TABLES

The UPDATE SYSTEM TABLES selection allows for maintenance of the NPSMS system tables (reference tables that provide lookup values for certain fields in the system). This function enables the user to make changes to the system tables which are used as selectable lists within the NPSMS.

```
                                                              ═0.00═
┌─────────────────────────────────────────────────────────────────┐
│ Management   Design   Annual   Reports   Graphics │ Options  Quit │ NPSMS │
└─────────────────────────────────────────────────────┬────────────┴───────┘
┌──────────────────────────────────────────┐ │ Printer Setup           │
│                                           │ │ Select Screen Colors    │
│              ┌─────────────────────┐      │ │ Hardware Setup          │
│              │   SYSTEM TABLES      │      │ │ Name Word Processor     │
│              ├─────────────────────┤      │ ├─────────────────────────┤
│              │ Parameter Names      │      │ │ Backup Data Files       │
│              │ Waterbody Uses       │      │ │ Restore Data Files      │
│              │ M. Area Pollutants   │      │ │ Import NPSMS Data       │
│              │ Funding Uses         │      │ │ Export NPSMS Data       │
│              │ State Codes (FIPS)   │      │ │ Convert Data for SAS    │
│              │ Information Types     │      │ ├─────────────────────────┤
│              │ Land Use Names       │      │ │ Maintenance             │
│              │ BMP Names            │      │ │ Delete Entire State     │
│              │ NA Source Names      │      │ ├─────────────────────────┤
│              │ User ID Table        │      │ │ Update System Tables    │
│              │ View Log Table       │      │ │ Word Processor          │
│              └─────────────────────┘      │ │                         │
└──────────────────────────────────────────┘ └─────────────────────────┘
┌─────────────────────────────────────────────────────────────────┐
│                 NONPOINT SOURCE MANAGEMENT SYSTEM                 │
│                        Version 3.01                               │
│          Press <F1> for HELP -- Alt+<F1> for Alternate HELP       │
└─────────────────────────────────────────────────────────────────┘
```

Figure 9.8-1

Once the user selects the UPDATE SYSTEM TABLES option from the Options Menu, a list of all the system tables within the NPSMS will be displayed. See the example in Figure 9.8-1. The user may choose any table in the list to be modified. After the user selects a system table, the table will be displayed as shown in the example, Figure 9.8-2.

```
                                                              ═0.00═
┌─────────────────────────────────────────────────────────────────────────┐
│ Management   Design   Annual   Reports   Graphics │ Options  Quit │ NPSMS │
└─────────────────────────────────────────────────────┬────────────┴───────┘
                                                      │ Printer Setup        │
┌─────────────────────────────────────────────────────┴──────────────────────┐
│                          PARAMETER NAMES                                    │
│                                                                            │
│  Type Source Units      Param Code    Parameter Name                       │
│  B    B      SCORE       FHCI          FISH HABITAT CONDITION INDEX         │
│  B    B      SCORE       NYB001        INDEX OF BIOLOGICAL INTEGRITY        │
│  B    B      SCORE       NYH001        OTHER HABITAT ALTERATION             │
│  C    S      MG/L        00425         ALKALINITY, BICARBONATE              │
│  C    S      MG/L        00430         ALKALINITY, CARONATE                 │
│  C    S      MG/L        00415         ALKALINITY, PHENOLPHTHALEIN          │
│  C    S      MG/L        00410         ALKALINITY, TOTAL                    │
│  C    S      GRAMS       31851         BACTERIA, DENITRIFIERS, MPN PER GRAM WET │
│  C    S                  47006         BACTERIA, TOTAL PER ML PLATE CT. AGS AGA │
│  C    S      MG/L        00303         BOD, 1 DAY, 20 DEG C                 │
│  C    S      MG/L        00304         BOD, 2 DAY, 20 DEG C                 │
│  C    S      MG/L        00324         BOD, 20 DAY, 20 DEG C                │
│  C    S      MG/L        00305         BOD, 3 DAY, 20 DEG C                 │
│                                                                            │
│      - Move Highlight Bar │ ESC-EXIT  A-ADD  C-CHANGE  D-DELETE            │
│                           ──Top of List──                                  │
└────────────────────────────────────────────────────────────────────────────┘
```

Figure 9.8-2

The user may add, change, or delete any entry in the table. Once the modifications have been made, the user must press the <ENTER> key for each field or <CTRL> and W to save the changes.

9.9 WORD PROCESSOR

The WORD PROCESSOR option allows the user to start the word processor or editor that is defined by the NAME WORD PROCESSOR menu selection. The WORD PROCESSOR function provides the capability of using any word processing program such as Microsoft Word or Word Perfect without exiting NPSMS. Once the WORD PROCESSOR option is selected, the screen shown in Figure 9.9-1 will be displayed.

```
                                                              ═0.00═
┌──────────────────────────────────────────────────────────────────┐
│ Management   Design   Annual   Reports   Graphics │ Options   Quit │ NPSMS │
└───────────────────────────────────────────────────┬────────────────┘
┌──────────────────────────────────────────────────┤ Printer Setup        ├──
│                                                   │ Select Screen Colors │
│                                                   │ Hardware Setup       │
│                                                   │ Name Word Processor  │
│                                                   ├──────────────────────┤
│                                                   │ Backup Data Files    │
│   ┌───────────────────────────────────────────────────────────┐
│   │ Enter File to Edit:                                        │
│   │ (Optional)                                                 │
│   └───[ F1-List Files        ┘-Accept        ESC-Cancel ]──────┘
│                                                   ├──────────────────────┤
│                                                   │ Maintenance          │
│                                                   │ Delete Entire State  │
│                                                   ├──────────────────────┤
│                                                   │ Update System Tables │
│                                                   │ Word Processor       │
└──────────────────────────────────────────────────┴──────────────────────┘

┌────────────────────────────────────────────────────────────────────┐
│                NONPOINT SOURCE MANAGEMENT SYSTEM                      │
│                      Version 3.01                                    │
│         Press <F1> for HELP -- Alt+<F1> for Alternate HELP           │
└────────────────────────────────────────────────────────────────────┘
```

Figure 9.9-1

The user must enter the file name to be edited or press the <F1> key for a selectable list of all the files in the current directory.

Appendix A. Report Output Samples

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St	Project Name	Funding	Lead Agency	Participating Agencies	Project Description
NY	SENECA RIVER DRAINAGE	150,500	DEC	DEC, VILLAGES OF WATERLOO & SENECA FALLS,USDA,SWCD	This pretend, 64,000-acre watershed project in the northern end of Seneca County drains into the north end of Cayuga Lake. Problems in the watershed include accelerated eutrophication of the shallow waters in northern Cayuga Lake which drains into Montezuma National Wildlife Refuge. Sources in this fictitious watershed project include small dairy farms, WWTPs from Seneca Falls and Waterloo, failed septic systems in residences on the shores of Cayuga Lake, and urban runoff. Primary pollutants are phosphorus and B.O.D.. Project plans include nutrient management, animal waste management, and septic system upgrades.

U.S. EPA NonPoint Source Management System

St NPS Management ID	Waterbody ID	Pollutant	Contribution Source			Cont
			NPS	Point	Bckgrnd	Type
NY NYSENECA1	NYCAYUGA1	OXYGEN CONSUMING MATERIALS (DO PROBLEMS)	0.40	0.40	0.20	C
		PHOSPHORUS FORMS	0.50	0.40	0.10	C

STATE: NY   MANAGEMENT AREA ID: NYSENECA1

BMP: ANIMAL WASTE MANAGEMENT   UNITS: A.U. CONTROLLED   GOAL: 2200   GOAL TYPE: C

Controlled Source --------------   Pollutant -----------------------------   Impaired Use --------------------------
DAIRIES   OXYGEN CONSUMING MATERIALS (DO PROBLEMS)   RECREATION
                                                                               WARM FISH

                                    PHOSPHORUS FORMS   RECREATION
                                                                               WARM FISH

BMP: NUTRIENT MANAGEMENT   UNITS: ACRES SERVED   GOAL: 45,000   GOAL TYPE: A

Controlled Source --------------   Pollutant -----------------------------   Impaired Use --------------------------
CROPLAND   PHOSPHORUS FORMS   RECREATION
                                                                               WARM FISH

GOLF COURSES   PHOSPHORUS FORMS   RECREATION
                                                                               WARM FISH

RESIDENTIAL LAWNS   PHOSPHORUS FORMS   RECREATION
                                                                               WARM FISH

STATE & CITY PARKS   PHOSPHORUS FORMS   RECREATION
                                                                               WARM FISH

BMP: SEPTIC SYSTEM UPGRADES   UNITS: # PERFORMING WELL   GOAL: 110   GOAL TYPE: C

Controlled Source --------------   Pollutant -----------------------------   Impaired Use --------------------------
UNSEWERED LAKESHORE RESIDENCES   OXYGEN CONSUMING MATERIALS (DO PROBLEMS)   RECREATION
                                                                               WARM FISH

                                    PHOSPHORUS FORMS   RECREATION
                                                                               WARM FISH

Appendix A. Report Output Samples   A-3

Funding Report by Selected Management Area

St	Management Area	Year	Source of Funding	Use of Funding	Funding Amount
NY	NYSENECA1	1990	319(H)	COST-SHARING	15,000
			319(H)	MONITORING	8,000
			319(H)	TECHNICAL ASSISTANCE	25,000
			HOJNACKI FUND	INFORMATION AND EDUCATION	1,000
			STATE	MONITORING	3,000
				Total for Year: $	52,000
		1991	205(J)(5)	INFORMATION AND EDUCATION	5,000
			205(J)(5)	REPORTING	40,000
			319(H)	COST-SHARING	10,000
			319(H)	MONITORING	17,000
			319(H)	TECHNICAL ASSISTANCE	22,000
			HOJNACKI FUND	INFORMATION AND EDUCATION	2,000
			STATE	MONITORING	2,500
				Total for Year: $	98,500
				Total for Management Area: $	150,500
				Grand Total: $	150,500

U.S. EPA NonPoint Source Management System

Funding Report by Source for All Projects

Source of Funding	Year	St	Management Area	Use of Funding	Funding Amount
205(J)(5)	1991	NY	NYSENECA1	INFORMATION AND EDUCATION	5,000
		NY	NYSENECA1	REPORTING	40,000
				Total for Year: $	45,000
				Total for Source: $	45,000
319(H)	1990	NY	NYSENECA1	COST-SHARING	15,000
		NY	NYSENECA1	MONITORING	8,000
		NY	NYSENECA1	TECHNICAL ASSISTANCE	25,000
				Total for Year: $	48,000
	1991	NY	NYSENECA1	COST-SHARING	10,000
		NY	NYSENECA1	MONITORING	17,000
		NY	NYSENECA1	TECHNICAL ASSISTANCE	22,000
				Total for Year: $	49,000
				Total for Source: $	97,000
HOJNACKI FUND	1990	NY	NYSENECA1	INFORMATION AND EDUCATION	1,000
				Total for Year: $	1,000
	1991	NY	NYSENECA1	INFORMATION AND EDUCATION	2,000
				Total for Year: $	2,000
				Total for Source: $	3,000
STATE	1990	NY	NYSENECA1	MONITORING	3,000
				Total for Year: $	3,000
	1991	NY	NYSENECA1	MONITORING	2,500
				Total for Year: $	2,500
				Total for Source: $	5,500
				Grand Total: $	150,500

U.S. EPA NonPoint Source Management System

Use of Funding	Year	St	Management Area	Source of Funding	Funding Amount

---

COST-SHARING	1990	NY	NYSENECA1	319(H)	15,000

				Total for Year: $	15,000
	1991	NY	NYSENECA1	319(H)	10,000

				Total for Year: $	10,000

				Total for Funding Use: $	25,000
INFORMATION AND EDUCATION	1990	NY	NYSENECA1	HOJNACKI FUND	1,000

				Total for Year: $	1,000
	1991	NY	NYSENECA1	205(J)(5)	5,000
		NY	NYSENECA1	HOJNACKI FUND	2,000

				Total for Year: $	7,000

				Total for Funding Use: $	8,000
MONITORING	1990	NY	NYSENECA1	319(H)	8,000
		NY	NYSENECA1	STATE	3,000

				Total for Year: $	11,000
	1991	NY	NYSENECA1	319(H)	17,000
		NY	NYSENECA1	STATE	2,500
		NY	NYSENECA1	205(J)(5)	40,000

				Total for Year: $	59,500

				Total for Funding Use: $	70,500
TECHNICAL ASSISTANCE	1990	NY	NYSENECA1	319(H)	25,000

				Total for Year: $	25,000
	1991	NY	NYSENECA1	319(H)	22,000

Year	St	Management Area	Source of Funding	Use of Funding	Funding Amount
1990	NY	NYSENECA1	319(H)	COST-SHARING	15,000
	NY	NYSENECA1	319(H)	MONITORING	8,000
	NY	NYSENECA1	319(H)	TECHNICAL ASSISTANCE	25,000
	NY	NYSENECA1	HOJNACKI FUND	INFORMATION AND EDUCATION	1,000
	NY	NYSENECA1	STATE	MONITORING	3,000
				Total for Year: $	52,000
1991	NY	NYSENECA1	205(J)(5)	INFORMATION AND EDUCATION	5,000
	NY	NYSENECA1	205(J)(5)	REPORTING	40,000
	NY	NYSENECA1	319(H)	COST-SHARING	10,000
	NY	NYSENECA1	319(H)	MONITORING	17,000
	NY	NYSENECA1	319(H)	TECHNICAL ASSISTANCE	22,000
	NY	NYSENECA1	HOJNACKI FUND	INFORMATION AND EDUCATION	2,000
	NY	NYSENECA1	STATE	MONITORING	2,500
				Total for Year: $	98,500
				Grand Total: $	150,500

St	Management Area ID	Waterbody ID	C/B	Design	Station	Primary Code	Station Type	Drainage	Shared
NY	NYSENECA1	NYCAYUGA1	BIO	Up/Down	NYDEC	CAYUGAB01	Upstream Station	8.500	N
					NYDEC	CAYUGAB02	Downstream Station	15.000	N
NY	NYSENECA1 ·	NYCAYUGA1	CHEM	Up/Down	NYDEC	CAYUGA101	Upstream Station	10.000	N
					NYDEC	CAYUGA102	Downstream Station	15.000	N

STATE: NY   MANAGEMENT AREA ID: NYSENECA1   WATERBODY ID: NYCAYUGA1

STATION TYPE: Upstream Station   STATION NO: NYDEC   PRIMARY CODE: CAYUGA101

CHEMICAL PARAMETERS:

Parameter Name ---------------	Parm Type	Reporting Units ----	-75-	-50-	-25-
BOD, 5 DAY, 20 DEG C	S	MG/L	125	50	15
FLOW, STREAM, INSTANTANEOUS, CFS	S	CFS	25	15	12
PHOSPHORUS, TOTAL (MG/L AS P)	S		.100	.025	.005

STATION TYPE: Downstream Station   STATION NO: NYDEC   PRIMARY CODE: CAYUGA102

CHEMICAL PARAMETERS:

Parameter Name ---------------	Parm Type	Reporting Units ----	-75-	-50-	-25-
BOD, 5 DAY, 20 DEG C	S	MG/L	250	150	50
FLOW, STREAM, INSTANTANEOUS, CFS	S	CFS	29	17	14
PHOSPHORUS, TOTAL (MG/L AS P)	S		.125	.055	.035

U.S. EPA NonPoint Source Management System

St	Management Area	Waterbody ID	Data Type	Year	Monitor Design	Parm Cnt	BMP Cnt	Annual Report Notes
NY	NYSENECA1	NYCAYUGA1	BIO	1990	UP/DOWN	7	0	This is the pre-implementation year. It was a normal precipitation year. Implementation data for this study are to be taken from thechemical/physical monitoring reports. The implementation applies to thewhole project area, and is not specific to the two different subwatershedsmonitored for the chemical/physical or biological/habitat programs.
NY	NYSENECA1	NYCAYUGA1	CHEM	1990	UP/DOWN	6	4	This is the pre-implementation year in the project. Water quality data arecollected in the spring only since this is the season during which problemsare the greatest and during which the controls to be implemented will havetheir greatest effect. Normal precipitation this year.

State: NY   Management Area: NYSENECA1   Waterbody ID: NYCAYUGA1   Data Type: CHEM   Year: 1990

Water Quality Parameter	Stat Type	Parm Type	Exp Var	Units	SEASON 1		SEASON 2		SEASON 3		SEASON 4	
					<-High	Low->	<-High	Low->	<-High	Low->	<-High	Low->
BOD, 5 DAY, 20 DEG C	UP	S	N	MG/L	8	8	6	6				
FLOW, STREAM, INSTANTANEOUS, CFS	UP	S	Y	CFS	5	5	5	5				
PHOSPHORUS, TOTAL (MG/L AS P)	UP	S	N		5	5	5	5				
BOD, 5 DAY, 20 DEG C	DOWN	S	N	MG/L	5	5	5	5				
FLOW, STREAM, INSTANTANEOUS, CFS	DOWN	S	Y	CFS	5	5	5	5				
PHOSPHORUS, TOTAL (MG/L AS P)	DOWN	S	N		5	5	5	5				

BMP Implemented	Stat Type	BMP Type	Implementation Goal	This Year	Sources Controlled by BMP	Pollutants for Source
ANIMAL WASTE MANAGEMENT	UP	CUMU	2000			
ANIMAL WASTE MANAGEMENT	DOWN	CUMU	2000	25	DAIRIES	OXYGEN CONSUMING MATERIALS (DO PHOSPHORUS FORMS
NUTRIENT MANAGEMENT	DOWN	ANNU	45,000	5,000	CROPLAND	PHOSPHORUS FORMS
SEPTIC SYSTEM UPGRADES	DOWN	CUMU	110	5	UNSEWERED LAKESHORE RESIDENC	OXYGEN CONSUMING MATERIALS (DO PHOSPHORUS FORMS

STATE: NY   MANAGEMENT AREA ID: NYSENECA1   WATERBODY ID: NYCAYUGA1   YEAR: 1990

STATION TYPE: Upstream Station   STATION NO: NYDEC   PRIMARY CODE: CAYUGAB01

CHEMICAL PARAMETERS: --------QUARTILE VALUES-------

Parameter Name	-75-	-50-	-25-	COUNTS/SEASON:	1	2	3	4
BOD, 5 DAY, 20 DEG C	125	50	15	Highest	8	0	0	0
				High	8	0	0	0
				Low	6	0	0	0
				Lowest	6	0	0	0
FLOW, STREAM, INSTANTANEOUS, CFS	25	15	12	Highest	5	0	0	0
				High	5	0	0	0
				Low	5	0	0	0
				Lowest	5	0	0	0
PHOSPHORUS, TOTAL (MG/L AS P)	.100	.025	.005	Highest	5	0	0	0
				High	5	0	0	0
				Low	5	0	0	0
				Lowest	5	0	0	0

BIOLOGICAL PARAMETERS (Chemical):   ---------CUTOFF VALUES--------

Parameter Name	Abn. High/Norm	Norm/Abn. Low	SCORES/VALUES:	1	2	3	4
FLOW, STREAM, INSTANTANEOUS, CFS	21	11		N			

BIOLOGICAL PARAMETERS (Non-Chemical):   -----------INDICES-----------

Parameter Name	Fully	Threatened	Partially	SCORES/VALUES	1	2	3	4
FISH HABITAT CONDITION INDEX	50	40	30		40			
INDEX OF BIOLOGICAL INTEGRITY	40	35	30		35			
TURBIDITY (JACKSON CANDLE UNITS)	20	10	5		2			

STATION TYPE: Downstream Station   STATION NO: NYDEC   PRIMARY CODE: CAYUGA102

CHEMICAL PARAMETERS: --------QUARTILE VALUES-------

Parameter Name	-75-	-50-	-25-	COUNTS/SEASON:	1	2	3	4
BOD, 5 DAY, 20 DEG C	250	150	50	Highest	5	0	0	0
				High	5	0	0	0
				Low	5	0	0	0
				Lowest	5	0	0	0
FLOW, STREAM, INSTANTANEOUS, CFS	29	17	14	Highest	5	0	0	0
				High	5	0	0	0
				Low	5	0	0	0
				Lowest	5	0	0	0

U.S. EPA NonPoint Source Management System

BMP Implementation Progress

Date: 06/09/92

Page: 1

State: NY   Management Area: NYSENECA1   Waterbody ID: NYCAYUGA1

BMP Name in Management File	BMP Reporting Units	BMP Type	Station	Data Type	Year	Implementation Goal	This Year	
ANIMAL WASTE MANAGEMENT	A.U. CONTROLLED	CUMUL	UPSTREAM	CHEM	1990	2,000	0	0%
				IMPLEMENTATION TOTALS:		2,000	0	0%
ANIMAL WASTE MANAGEMENT	A.U. CONTROLLED	CUMUL	DNSTREAM	CHEM	1990	2,000	25	1%
					1991	2,000	200	10%
					1992	2,000	75	4%
				IMPLEMENTATION TOTALS:		2,000	300	15%
NUTRIENT MANAGEMENT	ACRES SERVED	ANNUAL	DNSTREAM	CHEM	1990	45,000	5,000	11%
					1991	45,000	10,000	22%
					1992	45,000	22,000	49%
				IMPLEMENTATION TOTALS:		45,000	22,000	49%
SEPTIC SYSTEM UPGRADES	# PERFORMING WELL	CUMUL	DNSTREAM	CHEM	1990	110	5	5%
					1991	110	30	27%
					1992	110	42	38%
				IMPLEMENTATION TOTALS:		110	77	70%

U.S. EPA NonPoint Source Management System

Monitoring Design: Upstream/Downstream Study

Station 1: Upstream Station   Station Code: NYDEC   Primary code: CAYUGAB01
Station 2: Downstream Station   Station Code: NYDEC   Primary code: CAYUGAB02

		Station 1 vs Station 2				Station 1 vs Reasonable Attainment			
Parameter Name	Year	1	2	3	4	1	2	3	4
FISH HABITAT CONDITION INDEX	1990	200.00				66.67	0.00	0.00	0.00
	1991	160.00				66.67	0.00	0.00	0.00
	1992	150.00				75.00	0.00	0.00	0.00
INDEX OF BIOLOGICAL INTEGRITY	1990	140.00				77.78	0.00	0.00	0.00
	1991	140.00				93.33	0.00	0.00	0.00
	1992	125.00				88.89	0.00	0.00	0.00

STATE: NY   MANAGEMENT AREA ID: NYSENECA1
■■■

PART 1: MANAGEMENT AREA POLLUTANTS VS. BMP POLLUTANTS

Waterbody Id	Management Area Pollutants NOT FOUND in BMP

No Exceptions

PART 2: MONITORING DESIGN PARAMETERS VS. ANNUAL REPORT PARAMETERS

Biological/Habitat

Expl. Var. Waterbody Id		Station	Agency	Monitoring Design Parameters NOT FOUND in Annual Report
Y	NYCAYUGA1	NYDEC	CAYUGAB01	TURBIDITY (JACKSON CANDLE UNITS)

Chemical/Physical

Expl. Var. Waterbody Id		Station	Agency	Monitoring Design Parameters NOT FOUND in Annual Report

No Chemical/Physical Exceptions

PART 3: BMP POLLUTANTS VS. ANNUAL REPORT IMPLEMENTATION POLLUTANTS

BMP Name	Source Name	BMP Pollutants NOT FOUND in Annual Report
NUTRIENT MANAGEMENT	RESIDENTIAL LAWNS	PHOSPHORUS FORMS

Appendix B. Graphics Output Samples

MANAGEMENT AREA PROBLEM POLLUTANTS

STATE: NY   MA: NYSENECA1   WB: NYCAYUGA1

DATE: 08/30/91
PAGE: 1
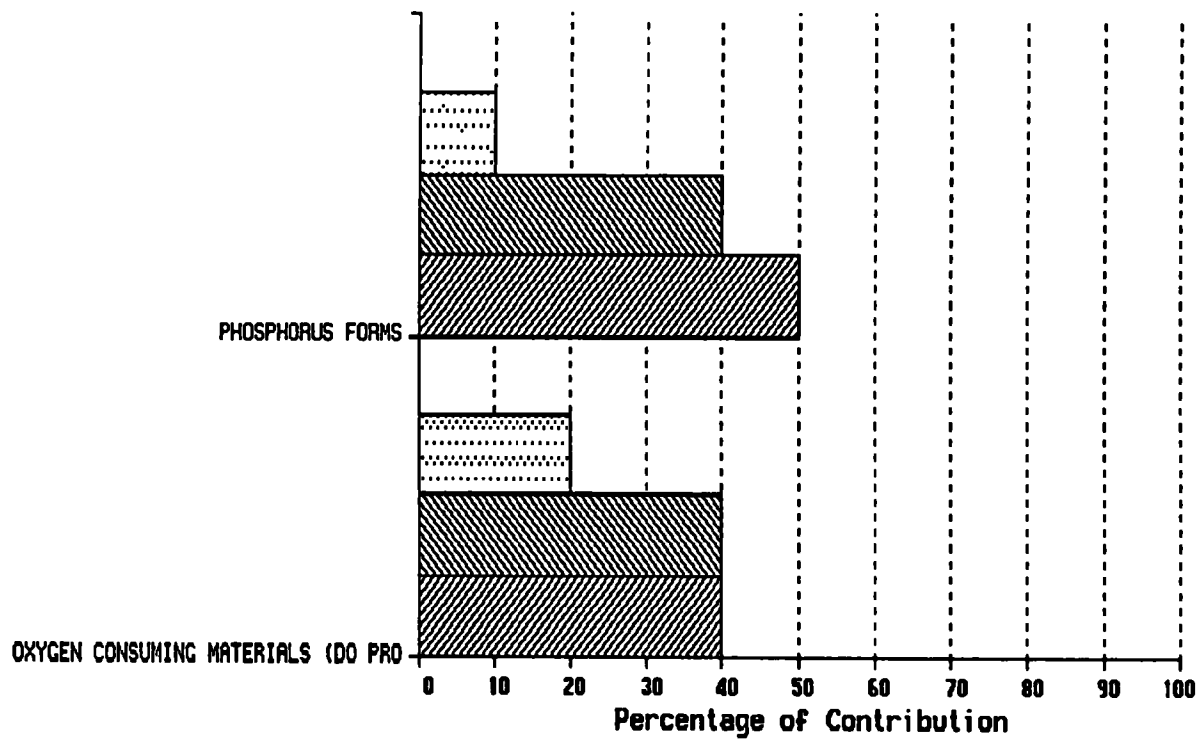
☐ - BACKGROUND
▨ - POINT
▨ - NPS

PHOSPHORUS FORMS

OXYGEN CONSUMING MATERIALS (DO PRO

Percentage of Contribution

BIOLOGICAL/HABITAT PARAMETER − TREND PLOT
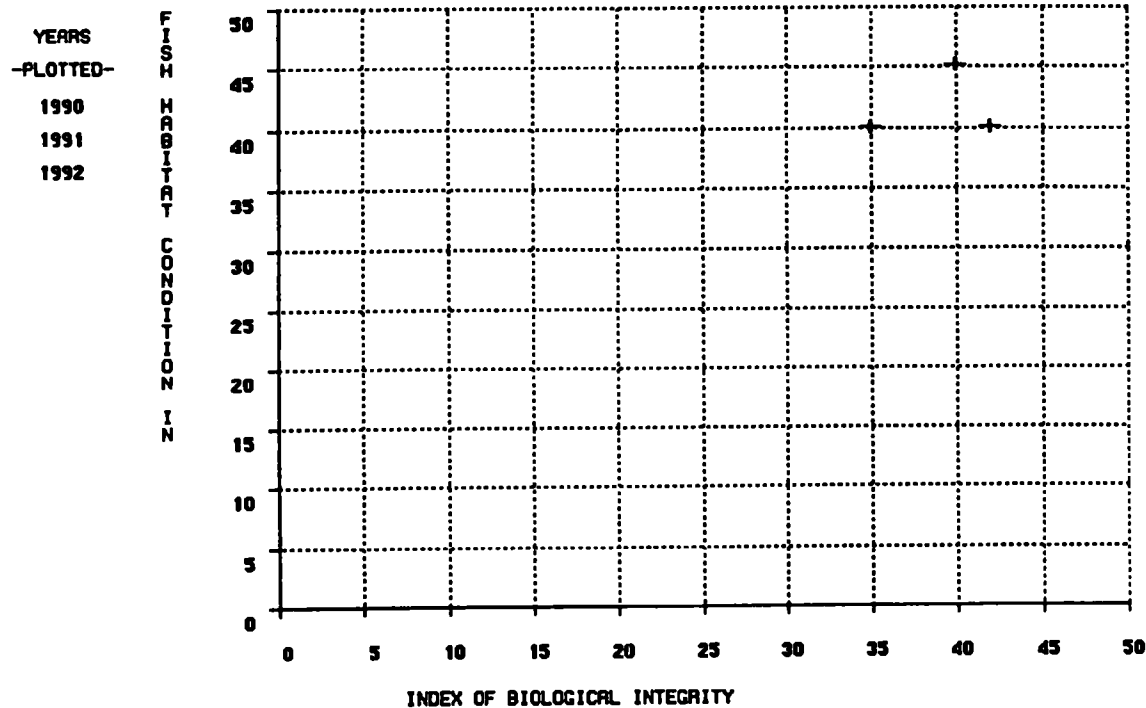
▲ UPSTREAM STATION
◆ DOWNSTREAM STATION

DATE: 08/30/91

STATE: NY   WA: NYSENECA1   WB: NYCAYUGA1

PARAMETER: FISH HABITAT CONDITION INDEX

SCORES/
VALUES

YEAR/SEASON
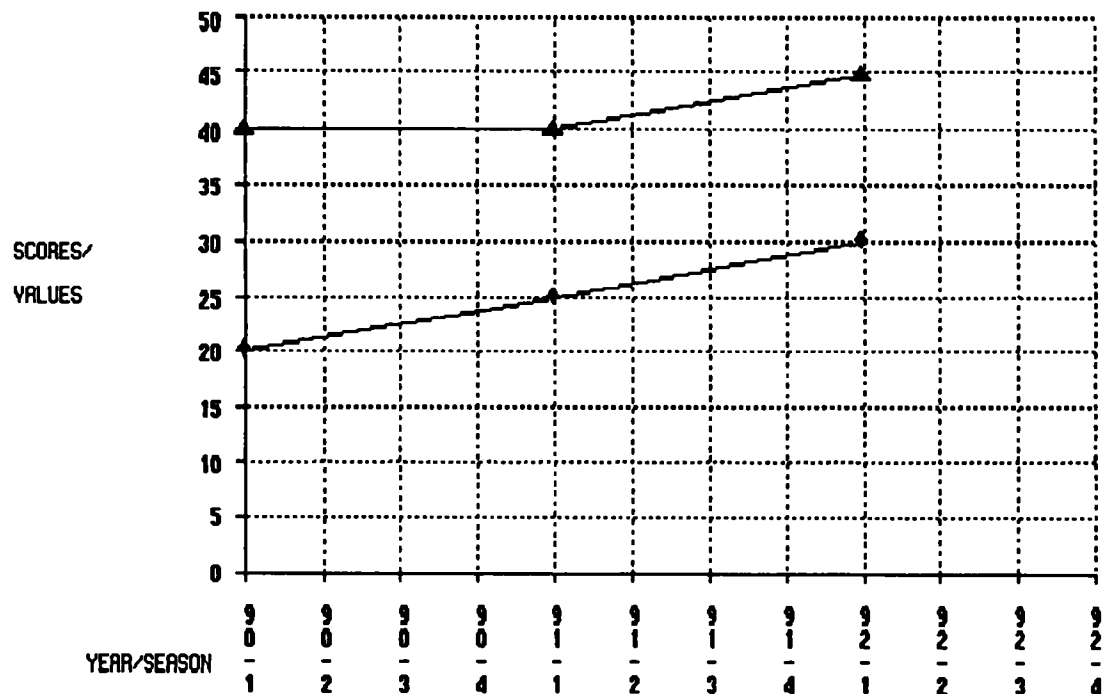
☒ - HIGHEST
▨ - HIGH
☐ - LOW
▧ - LOWEST

LEFT - UPSTREAM
RIGHT - DOWNSTREAM

DATE: 08/30/91

STATE: NY   WA: NYSENECA1   WB: NYCAYUGA1

PARAMETER: PHOSPHORUS, TOTAL (MG/L AS P)

C
O
U
N
T
S

25
23
20
18
15
13
10
8
5
3
0

9 0 - 1   9 0 - 2   9 0 - 3   9 0 - 4   9 1 - 1   9 1 - 2   9 1 - 3   9 1 - 4   9 2 - 1   9 2 - 2   9 2 - 3   9 2 - 4
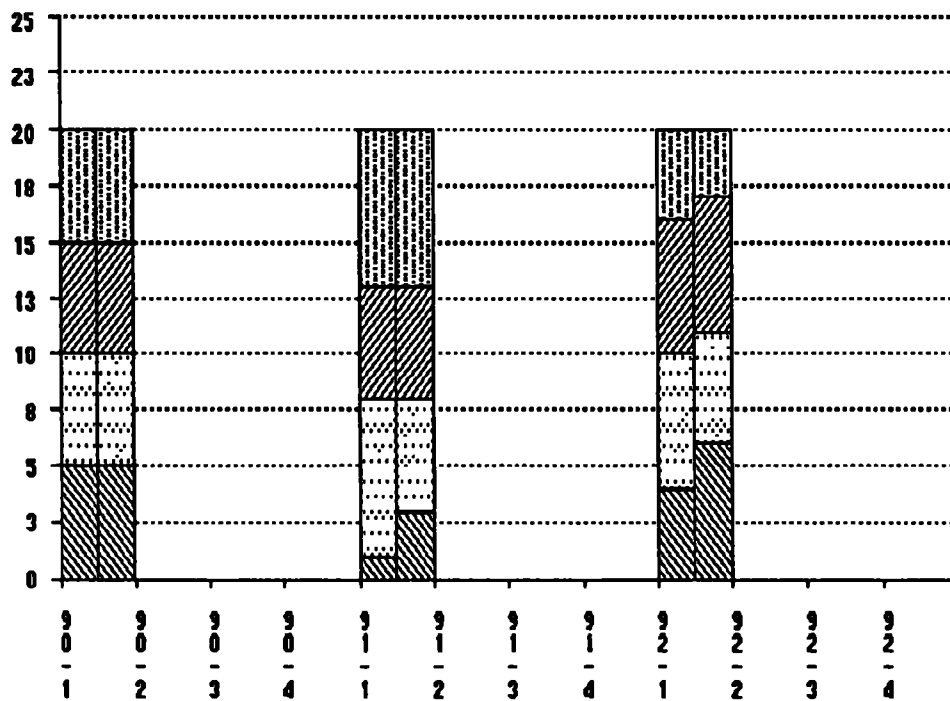
- TOTAL FUNDING -

$150,500

USES OF FUNDING FOR MANAGEMENT AREA

STATE: NY   MA: NYSENECA1

DOLLARS
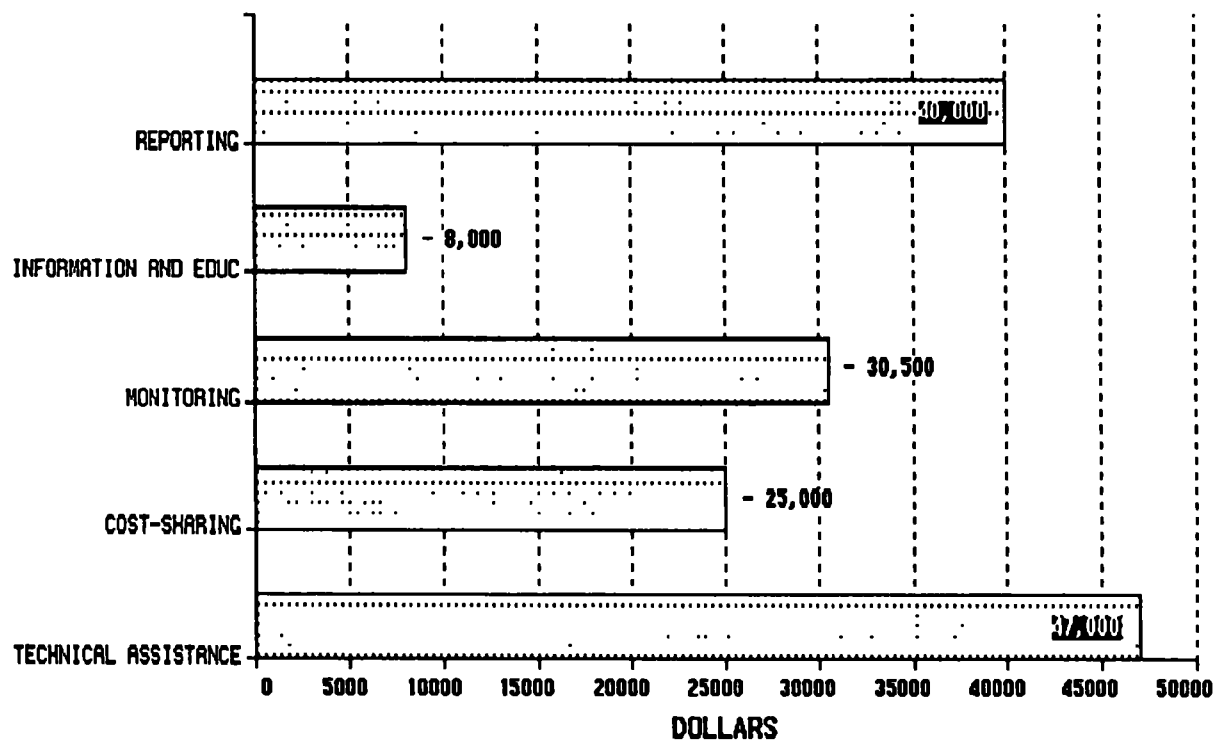
Appendix C. Standard System Tables

DESIGNATED USES [List 1]

USE CODE	USE NAME
WILDLIFE	Fish and Wildlife
WARM FISH	Warm Water Fishery
COLD FISH	Cold Water Fishery
SHELLFISH	Shellfish Protection
DRINKING	Domestic Water Supply
AGRICULTUR	Agriculture
IRRIGATION	Irrigation (Agriculture)
LIVESTOCK	Livestock Watering (Agriculture)
INDUSTRIAL	Industrial
RECREATION	Recreation
REC-PRIMRY	Primary Contact Recreation
REC-SECOND	Secondary Contact Recreation
REC-NONCON	Noncontact Recreation
NAVIGATION	Navigation
HIGH QUAL.	High Quality/Nondegradation
FISH CONSU	Fish Consumption
AQUA LIFE	Aquatic Life Support
SWIMMING	Swimming

PROBLEM POLLUTANTS [List 2]

POLLUTANT NAME

PESTICIDES
PRIORITY ORGANICS
METALS
AMMONIA
NITROGEN FORMS
PHOSPHORUS FORMS
ACIDITY
SEDIMENT/SILTATION
SUSPENDED SOLIDS
OXYGEN CONSUMING MATERIALS (DO PROBLEMS)
CHLORIDES
OTHER SALINITY
PATHOGENS
RADIATION
OIL AND GREASE
TASTE AND ODOR
FLOW ALTERATION
THERMAL MODIFICATION
OTHER HABITAT ALTERATIONS
OTHER
CHLORINE
NUTRIENTS
PH
SILTATION
ORGANIC ENRICHMENT/DO
SALINITY/TDS
NOXIOUS AQUATIC PLANTS
FILLING AND DRAINING
NONPRIORITY ORGANICS

RELATIVE CONTRIBUTION INFORMATION TYPES [List 3]

INFORMATION TYPE	CODE
Chemical Load Data	L
Chemical Concentration	C
Biological or Habitat	I
Modeling Data	M

BEST MANAGEMENT PRACTICES [List 4]

CLASS	CODE	BMP NAME
20	21	CONSERVATION TILLAGE
20	22	INTEGRATED PEST MANAGEMENT
20	23	ANIMAL WASTE MANAGEMENT
20	24	POROUS PAVEMENTS
20	25	ROAD/SKID TRAIL MANAGEMENT
20	26	LAND SURFACE ROUGHENING
20	27	STORMWATER MANAGEMENT
20	28	BANK STABILIZATION
20	29	RIPRAPPING
20	30	DETENTION/SEDIMENTATION BASINS/TRAPS
20	31	RUNOFF DIVERSIONS
20	32	REDESIGNED STREETS/PARKING LOTS
40		NPS CONTROLS - LAND USE ORDINANCE/REGULATION
50		STATE NPS CONTROL PROGRAM
60		STATE LAKE MANAGEMENT PROGRAM
70		EMISSION CONTROL PROGRAM

CONTROLLED SOURCES [List 5]

CLASS	SOURCE NAME
1000	AGRICULTURE
1100	NONIRRIGATED CROP PRODUCTION
1200	IRRIGATED CROP PRODUCTION
1300	SPECIALTY CROP PRODUCTION
1400	PASTURE LAND
1500	RANGE LAND
1600	FEEDLOTS - ALL TYPES
1700	AQUACULTURE
1800	ANIMAL HOLDING/MANAGMENT AREAS
1900	MANURE LAGOONS
2000	SILVICULTURE
2100	HARVESTING, RESTORATION, RESIDUE MANAGEMENT
2200	FOREST MANAGEMENT
2300	ROAD CONSTRUCTION/MAINTENANCE
3000	CONSTRUCTION
3100	HIGHWAY/ROAD/BRIDGE
3200	LAND DEVELOPMENT
4000	URBAN RUNOFF
5000	RESOURCE EXTRACTION
5100	SURFACE MINING
5200	SUBSURFACE MINING
5300	PLACER MINING
5400	DREDGE MINING
5500	PETROLEUM ACTIVITIES
5600	MILL TAILINGS
5700	MINE TAILINGS
6000	LAND DISPOSAL
6100	SLUDGE
6200	WASTEWATER
6300	LANDFILLS
6400	INDUSTRIAL LAND TREATMENT
6500	ONSITE WASTEWATER SYSTEMS
6600	HAZARDOUS WASTE
6700	SEPTAGE DISPOSAL
7000	HYDRO/HABITAT MODIFICATION
7100	CHANNELIZATION
7200	DREDGING
7300	DAM CONTRUCTION
7400	FLOW REGULATION/MODIFICATION
7500	BRIDGE CONSTRUCTION
7600	REMOVAL OF RIPARIAN VEGETATION
7700	STREAMBANK MODIFICTION/DESTABILIZATION
7800	DRAINING/FILLING OF WETLANDS
8000	OTHER
8100	ATMOSPHERIC DEPOSITION
8200	WASTE STORAGE/STORAGE TANK LEAKS
8300	HIGHWAY MAINTENANCE AND RUNOFF
8400	SPILLS

USES OF FUNDING [List 6]

FUNDING USE NAME

COST-SHARING
WATER QUALITY MONITORING
TECHNICAL ASSISTANCE
INFORMATION AND EDUCATION
ENFORCEMENT
ANALYSIS & REPORTING
RESEARCH
PLANNING
LAND TREATMENT MONITORING
MONITORING
EQUIPMENT
STAFFING

LAND USES [List 7]

LAND USE NAME

COMMERCIAL
INDUSTRIAL
RESIDENTIAL
COMMERCIAL/RESIDENTIAL
CULTIVATED CROPLAND
NON-CULTIVATED CROPLAND
PASTURELAND
RANGELAND-FEDERAL
FOREST LAND-FEDERAL
SURFACE WATER
FEDERAL LAND
STATE LAND
PAVED ROADS/HIGHWAYS
SURFACE MINES
SUBSURFACE MINES
WETLANDS
LAKES
STREAMS/RIVERS
ESTUARY
MILITARY BASES
UNPAVED ROADS/HIGHWAYS
GRASSLAND
RIPARIAN ZONE-FOREST
FOREST LAND-STATE
FOREST LAND-PRIVATE
RANGELAND-PRIVATE
RIPARIAN ZONE-WETLANDS
STATE PARK
FEDERAL PARK
MUNICIPAL PARK
SMALL LIVESTOCK OPERATIONS-DAIRY
SMALL CONFINED LIVESTOCK OPERATIONS
LARGE CONFINED LIVESTOCK OPERATIONS
DESERT
NATIVE PRAIRIE
UNMANAGED FOREST
UNMANAGED GRASSLAND

MONITORING PARAMETERS [List 8]

CODE	PARAMETER NAME	TYPE	UNITS
00425	ALKALINITY, BICARBONATE	S	MG/L
00430	ALKALINITY, CARONATE	S	MG/L
00415	ALKALINITY, PHENOLPHTHALEIN	S	MG/L
00410	ALKALINITY, TOTAL	S	MG/L
47006	BACTERIA, TOTAL PER ML PLATE CT. AGS AGAR 23C	S	
31851	BACTERIA, DENITRIFIERS, MPN PER GRAM WET WGT	S	
80087	BOD, CARBONACEOUS, 20 DAY, 20 DEG C	S	MG/L
50084	BOD, PLANT EFFLUENT, 5 DAY, 20 DEG C	S	MG/L
00303	BOD, 1 DAY, 20 DEG C	S	MG/L
00304	BOD, 2 DAY, 20 DEG C	S	MG/L
00324	BOD, 20 DAY, 20 DEG C	S	MG/L
00305	BOD, 3 DAY, 20 DEG C	S	MG/L
85001	BOD, 5 DAY	S	MG/L
00310	BOD, 5 DAY, 20 DEG C	S	MG/L
00315	BOD, 7 DAY, 20 DEG C	S	MG/L
34318	CHLOROFORM, DRY	S	
34319	CHLOROFORM, WET	S	
32106	CHLOROFORM, WHOLE WATER, UG/L	S	UG/L
71501	CONDITION INDEX, BIOLOGICAL, OYSTERS AIR WGT. TEC	S	
78501	CONDITION INDEX, ORGANIC, OYSTERS AIR WGT. TECH.	S	
31625	FECAL COLIFORM, MF, M-FC, 0.7 UM	S	
31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5 C	S	
31615	FECAL COLIFORM, MPN, EC MED, 44.5 C (TUBE 31614)	S	
31614	FECAL COLOFORM, MPN, TUBE CONFIGURATION	S	
50050	FLOW, IN CONDUIT OR THRU A TREATMENT PLANT, MG	S	MGD
00057	FLOW, INDICATES IT HAS BEEN CHECKED	S	
50047	FLOW, MAXIMUM DURING 24 HOUR PERIOD, MGD	S	MGD
50048	FLOW, MINIMUM DURING 24 HOUR PERIOD, MGD	S	MGD
00061	FLOW, STREAM, INSTANTANEOUS, CFS	S	CFS
00060	FLOW, STREAM, MEAN DAILY, CFS	S	CFS
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	S	MG/L N
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	S	
00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	S	
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	S	
00600	NITROGEN, TOTAL (MG/L AS N)	S	
71887	NITROGEN, TOTAL, AS NO3 - MG/L	S	
00400	PH (STANDARD UNITS)	S	
00403	PH, LAB, STANDARD UNITS	S	
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	S	
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	S	
00665	PHOSPHORUS, TOTAL (MG/L AS P)	S	
70507	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	S	
00045	PRECIPITATION, TOTAL (INCHES PER DAY)	S	
85599	PRECIPITATION, TOTAL/PERIOD-RAIN EQUIV. CM/SAMPLE	S	
00480	SALINITY, PARTS PER THOUSAND	S	
70305	SALINITY, BASED ON CONDUCTIVITY	S	
80250	SEDIMENT, PARTICLE SIZE FRACT. < .0625MM % DRY WGT	S	
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	S	
00021	TEMPERATURE, AIR (DEGREES FAHRENHEIT)	S	
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	S	
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	S	

MONITORING PARAMETERS [List 8 (continued)]

CODE	PARAMETER NAME	TYPE	UNITS
01350	TURBIDITY (SEVERITY)	S	
00070	TURBIDITY (JACKSON CANDLE UNITS)	S	
00076	TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT)	S	
FHCI	FISH HABITAT CONDITION INDEX	B	SCORE
NYB001	INDEX OF BIOLOGICAL INTEGRITY	B	SCORE
NYH001	OTHER HABITAT ALTERATION	B	SCORE

STATE NAMES/FIPS CODES

CODE	EPA REGION	STATE
AL	4	Alabama
AK	10	Alaska
AZ	9	Arizona
AR	6	Arkansas
CA	9	California
CO	8	Colorado
CT	1	Connecticut
DE	3	Delaware
DC	3	District of Columbia
FL	4	Florida
GA	4	Georgia
HI	9	Hawaii
ID	10	Idaho
IL	5	Illinois
IN	5	Indiana
IA	7	Iowa
KS	7	Kansas
KY	4	Kentucky
LA	6	Louisiana
ME	1	Maine
MD	3	Maryland
MA	1	Massachusetts
MI	5	Michigan
MN	5	Minnesota
MS	4	Mississippi
MO	7	Missouri
MT	8	Montana
NE	7	Nebraska
NV	9	Nevada
NH	1	New Hampshire
NJ	2	New Jersey
NM	6	New Mexico
NY	2	New York
NC	4	North Carolina
ND	8	North Dakota
OH	5	Ohio
OK	6	Oklahoma
OR	10	Oregon
PA	3	Pennsylvania
RI	1	Rhode Island
SC	4	South Carolina
SD	8	South Dakota
TN	4	Tennessee
TX	6	Texas
UT	8	Utah
VT	1	Vermont
VA	3	Virginia
WA	10	Washington
WV	3	West Virginia
WI	5	Wisconsin
WY	8	Wyoming
PR	2	Puerto Rico

IMPORTANT NOTICE

ALL RECIPIENTS OF THIS EPA GUIDANCE AND SOFTWARE PACKAGE SHOULD COMPLETE THE *NPSMS Software Request Fax Form* AND EITHER FAX IT TO MR. TOM HART OF HORIZON SYSTEMS, CORP., OR MAIL IT TO MR. HART AT THE FOLLOWING ADDRESS:

HORIZON SYSTEMS, CORP.
423 CARLISLE DRIVE
HERNDON, VIRGINIA   22070

BY COMPLETING AND SENDING THIS FORM YOU WILL BECOME A REGISTERED USER AND RECEIVE ALL UPGRADES AND USER NOTICES.

PLEASE COMPLETE ITEMS 1-4 ON THE FORM:

1. YOUR NAME

2. DATE YOU RECEIVED THIS PACKAGE

3. CHECK ONE TO INDICATE IF YOU ARE FROM EPA, A STATE, OR OTHER GROUP/AGENCY. IF OTHER, PLEASE SPECIFY ON LINE BELOW "OTHER".

4. YOUR FULL MAILING ADDRESS, FAX, AND PHONE NUMBER.

SOFTWARE INSTALLATION INSTRUCTIONS

NPSMS Version 3.01

NPSMS Version 3.01 requires the following environment to run:

- AT class computer (80286 or better)
- 640Kb RAM
- Hard Disk (with at least 2Mb of available space)
- High Density Floppy Drive
- Monochrome/Color Monitor (EGA/VGA required for graphics)

- DOS 3.30 or greater
- FILES=31 or greater in CONFIG.SYS
- BUFFERS=20 or greater in CONFIG.SYS

IMPORTANT

Before Installing NPSMS 3.01, read the README file on the NPSMS Diskette.
(Type: A:\README and press <ENTER>).

To Install NPSMS 3.01 follow the instructions below:

1.   Insert the NPSMS 3.01 Diskette in your floppy drive (A:, B:, etc.)

2.   Change to the drive that contains the NPSMS Diskette (i.e. A:).

3.   Type INSTALL and press the <ENTER> key.

     The Install Program will install NPSMS in the drive/directory you specify.

4.   To start NPSMS, at the DOS prompt type: NPSMS and press the <ENTER> key.

5.   At the logon screen, type in the default user ID. NPSMS and press the <ENTER> key.
     Then type in the default password. NPSMS. and press the <ENTER> key.

6.   You should now be at the NPSMS Main Menu. For more information press the F1 key
     or the <ALT> and F1 key together, or refer to your NPSMS User's Guide.

NPSMS

Software Request Fax Form

To: HSC   *Attn:* T. HART   *From:* EPA-HQ   *Pages:* 1   *By:* ①

Action to Take (check one):

X   Add New User to Database <u>Only</u> (Software Already Sent by EPA)

_____   Add New User to Database / <u>Send</u> Software Package from HSC

_____   Software <u>Upgrade</u> Was <u>Sent</u> to Existing User by EPA

_____   <u>Send</u> Software <u>Upgrade</u> to Existing User from HSC

Date Software Sent: ②   _Received_ _____   By: ___ EPIC/EPA ___

User Classification: ③

NPS Coordinator: _____   HQ User: _____   State User: _____   Regional User: _____   Other: _____
EPA   EPA   EPA   (OTHER)

User Information: ④

First/Last Name:

_____

Organization:

_____

_____

Mailing Address:

_____

City: _____   State: _____   Zip: _____

Phone Number: _____   Fax Number: _____