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Waste Management and Research Center

Inventory of Landbased Disposal Sites: Document on the Use of the Software for Access to the Inventory

University of Illinois

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Please contact WMRC for more information:

WMRC
One E. Hazelwood Drive
Champaign, IL 61820
217-333-8940 (phone)

www.wmrc.uiuc.edu

ILLINOIS

DEPARTMENT OF
NATURAL
RESOURCES

WMRC is a division of the Illinois Department of Natural Resources

Inventory of Landbased Disposal Sites

Document on the Use of the Software for Access to the Inventory

Developed by: Steven L. Murray, John Garver, and Lisa Damon

Programmed by: Steven L. Murray

Documentation by: Steven L. Murray, John Garver, and Lisa Damon

Editing by: Laurie Case, Sara Tompson, and Gary Miller

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Inventory of Landbased Disposal Sites

PC Version 1.0

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Hazardous Waste Research and Information Center Inventory of Landbased Disposal Sites

PC Version 1.0

Prepared by: Steven L. Murray, John Garver, Lisa Damon, Laurie Case, and Gary Miller

BACKGROUND AND DISCLAIMER

The landbased disposal sites computer database was assembled from several sources including the U.S. Environmental Protection Agency, the Illinois Environmental Protection Agency (IEPA), Northeastern Illinois Planning Commission (NIPC), and studies conducted by the State Geological Survey (SGS) sponsored by the Hazardous Waste Research and Information Center (HWRIC). This database is the largest of its type in Illinois. However, the results of a search of this database should not be assumed to be comprehensive of all potential sites. The most current information was collected for the year 1988.

More detailed information on the creation and contents of the 1988 database can be found in the following reports available from the Hazardous Waste Research and Information Center's Clearinghouse (217) 333-8940:

Mehnert, E., and D.A. Keefer, 1988. *Statewide Inventory of Land-Based Disposal Sites: An Update*: Champaign, IL: Hazardous Waste Research and Information Center, HWRIC RR020, 29p.

Mehnert, E. et al, 1990. *Statewide Inventory of Land-Based Disposal Sites: FY'88 Update*: Champaign, IL: Hazardous Waste Research and Information Center, HWRIC RR041, 36p.

The results from a search of this computer database should be viewed as an initial screening for sites in the geographic proximity of the site of concern and should be verified by field work and additional research. Some facilities may not be identified because they are not in this database, and some that are identified may have inaccurate location information.

RELIANCE ON THIS INFORMATION IS AT YOUR OWN RISK. THE STATE OF ILLINOIS, THE DEPARTMENT OF ENERGY AND NATURAL RESOURCES AND THE HAZARDOUS WASTE RESEARCH AND INFORMATION CENTER MAKE NO GUARANTEES OR WARRANTIES CONCERNING THE ACCURACY OF THE INFORMATION PROVIDED AND ASSUME NO LIABILITY FOR ITS USE BY ANY PARTY.

If you have any questions about this information, please contact the Data Management Officer at the Hazardous Waste Research and Information Center (217) 333-8940.

DESCRIPTION

This product is composed of two parts. The first is a database of landbased disposal sites from around the State of Illinois. The second part is a program that allows easy access to the data and enables the capture of data to a file or a printer.

This product requires at least 3.6 million bytes (MB) of hard disk storage space. The program runs on a machine with 640Kb of standard memory. It does not use extended or expanded memory at the present time. It has been tested on machines up to those using a 386 CPU. It should, however, run on all DOS machines. Please note that this product's performance is very dependent on the performance of your hard disk. If you have a slow hard disk, then this product will not respond as quickly as it would on a system with a fast hard disk. The program requires no software other than DOS to run. The program has been tested with MSDOS version 3.31. It should run with other versions of DOS from 2.x onward.

INSTALLATION

The installation procedure is straight-forward. Figure 1 lists the steps necessary to begin installation of the database. The diskette for the system contains one file, lf.exe. This file will recreate all the database and program files necessary for use. First, start up your microcomputer system and get to the MSDOS prompt. Place the diskette in a floppy disk drive. This discussion assumes that it is the a: drive. If your floppy disk drive has a different drive letter, please use the appropriate drive letter. Next, move to the top directory of your hard drive. The hard drive is assumed to be c:. Use the correct drive letter if it is different for your machine. Create a directory in which to house the database. Landfill is a good directory name for this database. Enter this directory on your hard drive. Wherever you see the words <landfill directory> in Figure 1, enter the name of the directory where you want the landfill database to reside. Type **a:lf** at the DOS prompt and press **ENTER**. The file (lf.exe) will begin the installation process. When the DOS prompt reappears, you are ready to start the database application. Type the word **landfill** and press **ENTER** to begin using the database.

ACTION	DESCRIPTION
c:<ENTER>	Go to your hard disk.
cd \<ENTER>	Go to the top directory of the hard disk.
md <landfill directory>	Create the landfill directory.
cd <landfill directory>	Enter the landfill directory.
a:lf<ENTER>	Start the installation process.

Figure 1: Steps to Install the Landbased Disposal Database System

ACTION	DESCRIPTION
c:<ENTER>	Go to your hard disk.
cd \<ENTER>	Go to the top directory of the hard disk.
cd <landfill directory>	Enter the landfill directory.
landfill <ENTER>	Type "landfill" and press ENTER to start

Figure 2: Steps to Start the Landbased Disposal Database System

STARTING THE LANDFILL DATABASE

After returning to the DOS prompt, the database is activated by 1) entering the landfill database directory, 2) typing **landfill** and 3) pressing **ENTER** to start (Figure 2). This will start up the program so that you may view and/or print any information available in the database. The print process allows you to save information to a file instead of sending it to a printer. The file created is in ASCII format. You can then use your word processor to import the information into any document.

VIEWING A LANDFILL RECORD

After you have started the landfill program you will be presented with the Main Menu (Figure 3). This presents the primary options. You can select an option in two ways.

1) Using the **arrow keys**, you can highlight the option you wish to use.
    Once highlighted, you can activate that option by pressing the
    ENTER key.
2) Press the key that corresponds to the first letter in the entry
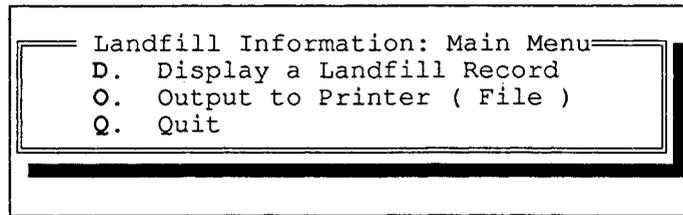   that you wish to use. The option will activate
    immediately.

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```
┌──── Landfill Information: Main Menu────┐
│ D.   Display a Landfill Record         │
│ O.   Output to Printer ( File )        │
│ Q.   Quit                              │
└────────────────────────────────────────┘
```

Figure 3: Main Menu

Highlight the **Display** option and press **Enter,** or press **D**. You will then be presented with a picklist of the landfill records which are available (Figure 4). The records are displayed in a window with one record per line. You can scroll up and down between records with the **Up** and **Down** arrow keys. Each line contains columns which are the pieces of information stored in that record. Each column is also called a field of the record. You can move left and right between columns within one record by using the **Left** and **Right** arrow keys. There is a wealth of information beyond your initial display in the window. The picklist provides you with a prompt (More ▸ and ◂ More) to indicate more columns to the right or left. Move among the columns to get a feel for this information.

The individual record display (accessed through the **ENTER** key with the cursor on the record) gives a more complete and organized display of the individual record. When you have highlighted the record you wish to display you need only press the **ENTER** key to view the individual record laid out in a page format.

```
┌──── Landfill Information: Main Menu ────┐
│ D.   Display a Landfill Record          │
│ O.   Output to Printer ( File )         │
│ Q.   Quit                               │
└──────────────────────────────────────────┘

┌──────────────────────────────────────────────────────────────┐
│   IEPA #       Site Name                    City              │
│                                                     More ▸     │
│     10650001 │ A A CITY PARK              │ QUINCY            │
│     10650002 │ BLICKHAN                   │ QUINCY            │
│     10650003 │ BROADWAY IMPORTS           │ QUINCY            │
│     10650004 │ SOLDIER-SAILOR HOME        │ QUINCY            │
│     10650005 │ BURLINGTON NORTHERN RAILROAD│ QUINCY           │
│     10650006 │ CALCIUM CARBONATE CO.      │ QUINCY            │
│     10650007 │ CHARLES RICHMILLER         │ QUINCY            │
│     10650013 │ BEMIS FREIGHT SERVICE      │ QUINCY            │
│     10650014 │ GULLY TRANSPORTATION       │ QUINCY            │
│     18010001 │ QUINCY MUNICIPAL #4        │ QUINCY            │
│     18020001 │ CAMP POINT TOWNSHIP        │ CAMP POINT        │
│ Sorted by : iepa : F1 to cycle ═══════ Type a string to locate. │
└──────────────────────────────────────────────────────────────┘
Enter=Display    Esc=Exit
```
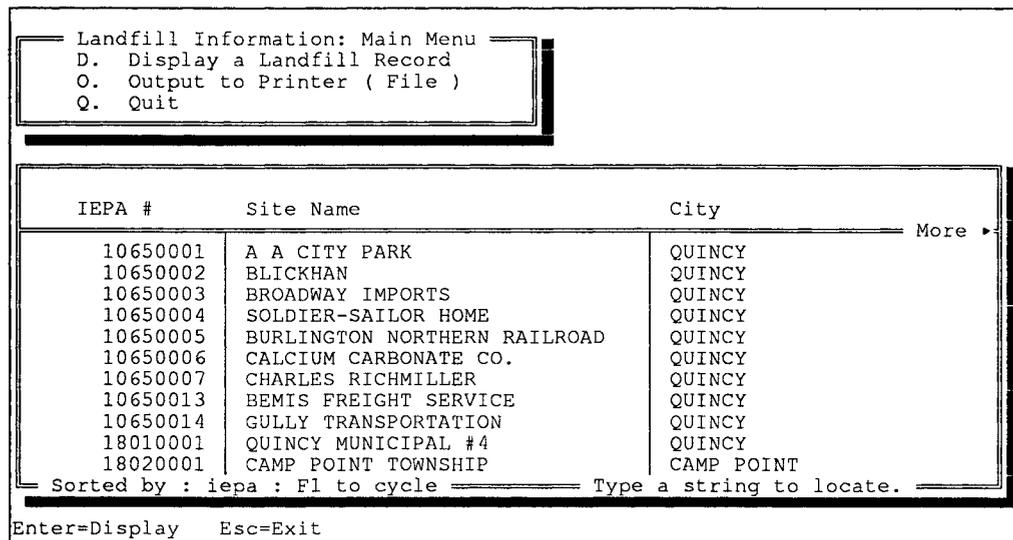
Figure 4: Main Menu and Picklist

The picklist has a number of active keys. Some of them are denoted on the screen while you are in the picklist. Figure 5 presents the keys and key combinations that are active while you are in the picklist. You should reproduce Figure 5 as a reference at your computer.

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KEYS	ACTION
↑ ↓ ← → (Arrow keys)	Move cursor: up/down 1 record; left/right 1 field.
{END}	Go to the rightmost displayed field.
{HOME}	Go to the leftmost displayed field.
Control-{END}	Go to the last field.
Control-{Home}	Go to the first field.
F1	Toggle between sorted lists.
a-z,A-Z,0-9	Start the entry of a name or number to locate in the field used for sorting (see the description of the F1 key above for different lists).
PgUp	Move up 1 window.
PgDn	Move down 1 window.
Control-PgUp	Go to the first record.
Control-PgDn	Go to the last record.
{ESC}	Leave the picklist without doing anything.
{ENTER}	Select the current record to view its contents.

Figure 5: Keys Active in the Picklist of Landfill Records.

SORTING AND SEARCHING IN THE LANDFILL DATABASE

The picklist is a **sorted list**. It is sorted by **IEPA number, Site Name, City, County, or Owner.** You can change the current sort by pressing the F1 key. There is feedback provided at the bottom of the list which tells you how it is currently sorted. These various sorts can help you get to the data efficiently. This is especially true when combined with the partial search function of the picklist. The partial search is activated by starting to type a **search object** (e.g. Sangamon or Quincy under a county sort). The search object is free text. It may be any number of words or characters with a limit of 10 characters. When you have completed the partial search object you should press the **ENTER** key to locate that object. If it is not found, then the program will place you at the record that comes closest to satisfying your search request.

It is important to note what sorting is currently active. The search object which you type should be appropriate for the current sorting of the list. The use of numbers in a list sorted by county would not be appropriate. The use of special characters such as $,*,& for any of the sorted lists would not be appropriate. As an example, if the active sort is by county, a search for "Sangamon" would take you to the first entry for that county. A search for "Chicago" in that same sorted list would get you to "Christian" county. This occurs because the program is trying to locate the record with county information that comes closest to matching your search object. Remember to use an appropriate search object for the current sorting.

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OPTIONS AVAILABLE WHEN VIEWING A RECORD

Pressing **ENTER** while viewing an entry on the picklist will allow you to view that record with the information laid out in a whole screen format. The information for a landfill record is laid out in a two page format (Figures 6 and 7). You can move to page two of the record by pressing → while on page one. You would press ← to get to page one while viewing page two. You will also be able to move forward or backward one record at a time by using the ↑ and ↓ keys. You may obtain a hardcopy print by pressing the **F10** key (this will print both pages on one sheet). Finally, you can leave this individual record display and return to the picklist by pressing the **ESC** key.

```
                    Display a Landfill on the List              Page 1 of 2
  ┌─ General Information ──────────────────────────────────────────────────
  │ IEPA #   10650001  USEPA #                 Provisional Number 0
  │ Site Name A A CITY PARK                    City    QUINCY
  │ Owner QUINCY PARK DIST.                    County ADAMS
  │ Operator QUINCY PARK DIST.                  Size (Acres)      3
  │ Type of Disposal Facility C               Date Opened  10166   Closed 070178
  ├─ Legal Description ────────────────────────────────────────────────────
  │ Township 01S Range 09W Section 34 Quarter Section : 1    2    3    4
  │ Principal Meridian 3 ──────────────────────────────────────────────────
  ├─ Sources of Information ───────────────────────────────────────────────
  │ X IEPA    PCB     DPH     Agency
  │   ISGS    IDM&M   Local   Other
  │ Comments: 1
  │           2
  ├─ Types of Wastes ──────────────────────────────────────────────────────
  │   General        Industrial        Hazardous Liquids      Oil Field Brine
  │   Municipal      Foundry Sand      Radioactive            Special
  │   Septic         Incinerator Ash  X Demolition Debris    X Non-Hazardous
  │   Animal         Slag              Concrete               Unknown
  │   Pathological   Hazardous Solids  Landscaping
  │   Other
  └────────────────────────────────────────────────────────────────────────
          Press → for page 2 or ESC to return to the Main Menu.
       ↑=Move up 1 record   ↓=Move down 1 record   F10=Print this record.
```

Figure 6: Page 1 of an Individual Record Display

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```
                    Display a Landfill on the List              Page 2 of 2
  ┌─ Map Information ─────────────────────────────────────────────────────────
  │ Latitude  395700   Map LL
  │ Longitude 912500   NIPC Map
  │ Map Comments
  ├─ Regulatory Information ──────────────────────────────────────────────────
  │ Status of Landfill CLOSED  NO FINAL COVER
  │ Permit Status UNPERMITTED UNAUTHORIZED                 Permit Date 010166
  │ Remedial Action                  RCRA Site    Former Site     Illegal Dump
  │ Date: Discovered       0 Cleaned       0      Offsite Wastes Accepted
  │ Size of Disposal Area (Acres)     2
  ├─ Physical Information ────────────────────────────────────────────────────
  │    Leachate Collected      Liner Material:A=Recompacted clay, B=In situ clay
  │ NO  Groundwater                         C=Synthetic material, D=Combination,
  │     Monitoring                          E=None, Z=Other
  ├─ Reports ─────────────────────────────────────────────────────────────────
  │ NO HWRIC    NO IEPA     NO ISGS      Other NO
  │ P=Preliminary, D=Detailed, PD=Both Preliminary and Detailed, NO=None
  ├─ Other Information ───────────────────────────────────────────────────────
  │ 1:                  4:                      6:
  │ 2:                  5:                      7:
  │ 3:
  └───────────────────────────────────────────────────────────────────────────
             Press ← for page 2 or ESC to return to the Main Menu.
        ↑=Move up 1 record  ↓=Move down 1 record   F10=Print this record.
```

Figure 7: Page 2 of an Individual Record Display

PRINTING

The print options are accessed from the main menu by pressing O (output) or using the ↑ and ↓ keys to highlight the option and pressing ENTER. The display will show a double line to aid you in keeping track of the option you selected from the Main Menu. You will then be taken to a submenu (Figure 8) which shows the various options available for printing. Finally, you can return to the Main Menu by either selecting option Q to quit, or pressing ESC.

```
  ╔══ Landfill Information: Main Menu ══╗
  ║ D.   Display a Landfill Record     ║
  ║ O.   Output to Printer ( File )    ║
  ║ Q.   Quit                          ║
  ╚════════════════════════════════════╝
                         ╔══ Print Menu ══════════════╗
                         ║ I. Single Record Information║
                         ║ S. Sub-Group Print          ║
                         ║ P. Print Lists              ║
                         ║ Q. Quit                     ║
                         ╚═════════════════════════════╝
```

Figure 8: Print Menu

The Single Record Information option will allow you to select an entry from a picklist similar to the one you saw for viewing a document. See Figure 5 for the list of active keys. Pressing ENTER while the cursor is on a record starts the printing process.

After selecting a record for printing, you will be given the option to direct the record to a printer or to a file. Saving the contents to a disk file is helpful if you want to retrieve some information from the

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database for a document or have it available in ASCII format for your word processor. A window will pop up which will present this option. Press F for printing to a file, P for printing to a printer, or use the ↑, ↓, and ENTER keys to make your selection. If you select to print to a file, then you will be given the chance to enter a path for the file as well as the file name. Figure 9 shows the window you will see. This window provides prompts for some possible entries such as "C:\" and ".prn", but you are free to change this as appropriate. You MUST make sure that the words in the entry windows are valid. For example, " .prn" is displayed initially, but you may want "sample.doc" to be your save file. Just typing in "sample.doc" is not enough as "sample.docrn" will be displayed which is invalid. You must erase the final pieces left over from the initial entry to create "sample.doc ".

```
┌─── Landfill Information: Main Menu ───┐
│  D.   Display a Landfill Record       │
│  O.   Output to Printer ( File )      │
│  Q.   Quit                            │■
└───────────────────────────────────────┘  ┌─ Print Menu ═══════════════════┐
                                            │  I. Single Record Information  │
                                            │  S. Sub-Group Print            │
                                            │  P. Print Lists                │
                                            │  Q. Quit                       │
                                            └────────────────────────────────┘
     ┌──────────────────────────┐
     │  Enter the path and name │
     │  of a file to save to.   │
     │  Path = C:\              │
     │  File Name =       .prn  │
     └──────────────────────────┘
```
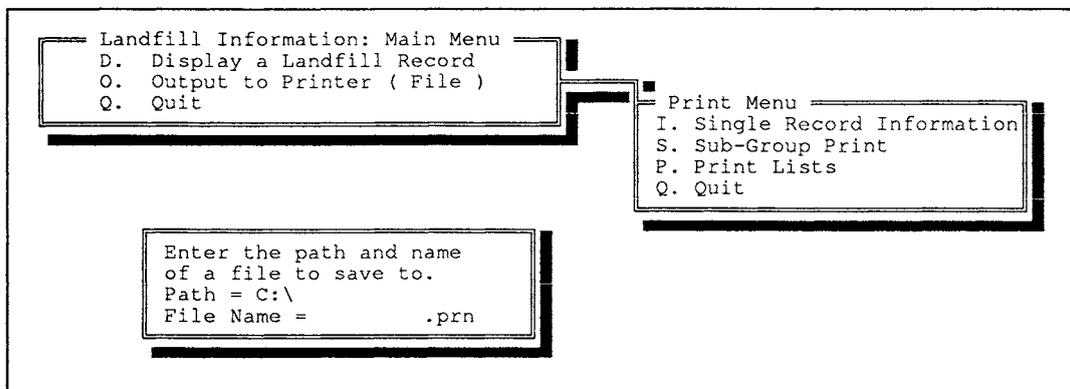
Figure 9: File Name Entry

The **Sub-Group** and **Print Lists** options are similar in their use; however, they produce different output. The **Sub-Group** option will print the single page listings that are available by pressing the F10 key in the view document section and in the Single Record Information option in the print menu. The **Print List** option will print a single line listing of each record from a group of records selected from the database. The IEPA number, Site Name, City, County, and Owner for each record are printed on one line per record. This can act as a quick reference list should you need such a document.

After selecting either the Sub-Group or Print Lists option, you will be presented with the following page (Figure 10) on which to lay out your selection criteria for the sub-group you wish to print. The ↑ and ↓ keys move between fields, and **Control-W** is used to end entry and continue the with the operation. The **ESC** is also available to return to the Print Menu. The criteria are used as the basis to select records from the database. You should enter information for every criteria which you wish to use. For example, if you want disposal sites in the Cook county area, you would move the cursor to the County criteria. You would then type in the word "Cook" and press **Control-W**. Another example would be the selection of all disposal sites which closed in 1981. The cursor would be moved to the first closure date criteria (After) and the date "12/31/80" would be entered. The cursor would then be moved to the next date criteria (Before) and the date "1/1/82" would be entered. This would select all entries with closure dates in the year 1981.

```
 ┌── Landfill Information: Main Menu ══╗▌
 │    D.   Display a Landfill Record   ║▌
 │    O.   Output to Printer ( File )  ║▐
 │    Q.   Quit                        ║═ Print Menu ══════════════════╗
 └─────────────────────────────────────  I.  Single Record Information║▌
                                          S.  Sub-Group Print          ║▌
 ┌══ Selection Criteria for Prints ═══╗═  P.  Print Lists              ║▌
 │ IEPA #    : ▒▒▒▒▒▒▒▒▒▒             ║│   Q.  Quit                    ║▌
 │ City      : ▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒     ║└──────────────────────────────
 │ County    : ▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒
 │ Site Name : ▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒
 │ Owner     : ▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒  Place an X beside each desired category.
 │ Township  : ▒▒▒▒               ▒:General Solids    ▒:Hazardous Liquids
 │ Range     : ▒▒▒                ▒:Municipal Sludge  ▒:Radioactive
 │ Closure   : After : ▒▒/▒▒/▒▒   ▒:Septic Sludge     ▒:Demolition Debris
 │ Date Range: Before: ▒▒/▒▒/▒▒   ▒:Animal Waste      ▒:Concrete/Asphalt
 │ Enter all that apply: ▒▒▒▒▒    ▒:Pathological      ▒:Landscaping Debris
 │ A=Open Dump; B=Secured         ▒:Industrial        ▒:Oil Field Brine
 │ Containers; C=Landfill;        ▒:Foundry Sand      ▒:IEPA Special Waste
 │ D=Incineration;                ▒:Incinerator Ash   ▒:Nonhazardous
 │ E=Surface Impoundment;         ▒:Slag              ▒:Other
 │ F=Land Application             ▒:Hazardous Solids  ▒:Unknown
 │
 ██  Ctrl-W:Execute ; Esc:Exit ████████████████████████████████████
```

Figure 10: Selection Criteria Page

Please note that selection criteria are **additive**. They will be combined to narrow down the entries in the print. For example, a county selection of "Cook" would yield information for the cities of Chicago, Palatine, Chicago Heights, etc. Adding "Cook" for the county and "X" for the Incinerator Ash category would select out only those entries noted as being in Cook county which are noted as containing incinerator ash. This narrowing of records can be very useful in printing out exactly what you want to see.

After you have entered your selection criteria, you will be given the option to print to a file or to your printer. Please see the discussion of this previously provided under Single Record Information and Figure 9.

An additional note concerns the speed with which this selection process will proceed. This is the most disk intensive operation in the whole program. It could take from one to several minutes to generate your printout. Please be patient. The requested selection should print in a relatively short time. The program will display the numbers of the records as it scans them to see if they meet the criteria. This feedback will keep you informed of the progress of the program.

In terms of both resource management (paper use reduction) and effective data scanning, the use of the Print Lists is recommended. You can generate a list based on what you consider to be the important criteria. This list can then be used to print out either individually or as a sub-group the landfill entries that are most important for the task at hand.

The print process uses the extended character set of DOS to provide shading to denote fields of information on the report. This highlighting helps you to easily access the information on the report. However, if your printer does not have these extended characters available then the printout will be difficult to read. In this case, we recommend that you save any prints to a file and use your word processing software to generate a print. Hewlett Packard LaserJet, or Epson compatible printers can be used for printing. It is currently not possible to print directly to a PostScript printer from this program.

The print process also sends the print to the computer port noted as LPT1:. If you do not get a print it may be due to the computer not routing prints to that port. You should check your DOS manual to determine how you should set up your computer to send prints to LPT1. In any case, you can still save prints to a file as noted above.

One final point concerning the print process. The **ESC** key is active at all times. If you make a mistake, or need to stop the print process, the escape key will terminate printing. The termination will be made at a logical print boundary, either a page for a sub-group or a line for a listing.

This program is intended to allow you a great amount of flexibility in getting to the information contained in the landbased disposal facility database. You can move quickly backward and forward through the database, move information from the database to your word processor, or print information in easy to use hardcopy format. These options make this program an efficient means of accessing the data.

APPENDICES

There are three appendices included in this report. Appendix I gives descriptive information concerning the information that is generated on a print. Appendix II gives descriptive information concerning the information that is presented while viewing an individual record. Appendix III is a feedback form. It has been included as means to survey the users of this program. It will provide a means for you to comment on the program. Instructions are given on where to mail the feedback form. You can also fax a copy of the completed form to the number printed in the appendix. You can photocopy the feedback form to retain a copy for any future comments you may have concerning the program.

APPENDIX I: REFERENCE MATERIAL FOR PRINTED REPORTS

INVENTORY OF LANDBASED DISPOSAL SITES

Description   File created through HWRIC contract with Illinois State Geological Survey to develop a comprehensive computer inventory of landbased waste disposal sites. The inventory includes historical and currently active sites of all types: municipal, industrial, hazardous, impoundments, etc. The file includes information from IEPA's Comprehensive Inventory of Special Waste Handlers. Records of all sites identified in that file as landfills, disposal surface impoundments, land application sites, and illegal dumps were used to create the base file. Additional sites identified through county contacts, Northeastern Illinois Planning Commission, and other resources.

General Information

IEPA #   IEPA 10-digit identifier based on FIPS Geographic Coding Scheme. First 1 or 2 digits may be blank.

> Digits 1-3   = County
> Digits 4-6   = Township or Municipality
> Digits 7-10 = Numeric sequence within township or municipality

Special IEPA: Alternate # assigned if no IEPA or USEPA # exists. In these cases, IEPA # listed as County FIPS code followed by 9999999. There are over 500 records in the database with this type of IEPA format. All such records   for a particular county will have the same IEPA number.

USEPA #   USEPA 12-character identifier.

> Characters 1-2   = State
> Character 3 D   = Dunn & Bradstreet #
>   T   = Temporary Dunn & Bradstreet #
>   Integer   = Federal facility
> Characters 4-12 = the actual Dunn & Bradstreet #, except federal facilities, which
>   are identified by a GSA #.

PROVISIONAL NUMBER   There are 569 records that have a meaningful value for this field. Definition of this field is not clear.

DISPOSAL FACILITY TYPE   Type of disposal facility (can be more than one).

> A = Open dump
> B = Secured containers
> C = Landfill
> D = Incineration
> E = Surface impoundment
> F = Land application

DATE OPENED   Date site opened.

DATE CLOSED   Date site closed.

SITE-NAME   Name of site or facility.

OWNER	Name of site owner.
OPERATOR	Name of site operator.

CITY   City in or near which site is located. There are some formatting variations which occur in this field. In some cases a city name is followed by "TWP" or "TOWNSHIP". A more complete search of the database for a particular city might be conducted using both the city name and the city name plus "TWP".

COUNTY   County in which site is located. There are 3 county names found in the database that are misspelled or formatted inconsistently (LASALLE, PUTNAM, and ROCK COUNTY). Four of the database records contain these inconsistent county names.

SIZE   Size of disposal site in acres.

Legal Description

TOWNSHIP   Township of legal description.

RANGE   Range of legal description.

SECTION   Section of legal description.

QUARTER SECTIONS 1 Largest quarter section subdivision.
                     2
                     3
                     4 Smallest quarter section subdivision.

                     Some values in these fields do not correspond with the definition of quarter section. Approximately 60 records contain quarter section information that is difficult to interpret.

PRINCIPAL MERIDIAN   Principal longitudinal meridian reference of legal description.

Sources of Information

IEPA	Illinois Environmental Protection Agency
ISGS	Illinois State Geological Survey
PCB	Pollution Control Board
IDM&M	Illinois Dept. of Mines & Minerals
DPH	Department of Public Health
LOCAL	Refers to a local government source or agency.
AGENCY	12 types of entries appear in this field. Most of the records with these entries (approx. 575) are from NIPC and NIPC reports (Northeastern Illinois Planning Commission).

OTHER   26 types of other entries appear in this field for approximately 190 records. Non-"X" entries include references to the following reports or organizations:

> CBS '33 - Chicago Bureau of Streets 1933
> CDPW - Chicago Dept Public Works 1906
> Chicago Tribune
> HWRIC Research Reports
> NIPC and NIPC Reports
> RCRA TSD
> USEPA CERCLIS

COMMENTS 1,2   The comment fields provide some additional descriptive information or details about an AGENCY or OTHER source.

Types of Waste

GENERAL	General solid waste
MUNICIPAL	Municipal sewage sludge
SEPTIC	Septic sludge
ANIMAL	Animal waste
PATHOLOGICAL	Pathological
INDUSTRIAL	Industrial
FOUNDRY SAND	Foundry sand
INCINERATOR ASH	Incinerator ash
SLAG	Slag
HAZARDOUS SOLIDS	Hazardous solid waste
HAZARDOUS LIQUIDS	Hazardous liquid waste
RADIOACTIVE	Radioactive waste
DEMOLITION DEBRIS	Demolition debris
CONCRETE	Concrete or asphalt
LANDSCAPING	Landscaping debris
OIL FIELD BRINE	Oil field brine
SPECIAL	IEPA Special Waste
NON-HAZARDOUS	Nonhazardous waste
OTHER	Other waste
UNKNOWN	Unknown waste

Map Information

LATITUDE   Latitude of site given in degrees/minutes/seconds. A quick review of the values found in this field revealed 13 records in which the latitude seems to be out of the range of valid latitude values for the state.

LONGITUDE   Longitude of site given in degrees/minute/seconds. A quick review of the values found in this field revealed 12 records which seem to be outside the range of valid longitude values for the state.

13

MAP   Method or location information used to generate computer point location. In all cases except the last two, the computer places the point in the geographic center of the area.

                   LL   = Latitude, longitude
                   LEG   = Legal description; section, township, range & quarter sections if known
                   CIT   = City
                   ZIP   = Zip code
                   ZPT   = Zip code, bisected by township if known
                   ZCY   = Zip code, bisected by county
                   OLD   = Mapped from old maps and records
                   MAN   = points were generated by ARCEDIT from manual placement of cursor.

                   Other entries that appear in map field of 67 records (no definitions):

                   FIX, TWP, UNK, ZTP

NIPC MAP   Site number as identified on Northeast Illinois Planning Commission landfill maps.

MAP COMMENTS   Explanation of change/correction in method used to map site.

Regulatory Information

STATUS OF LANDFILL   IEPA's operational status determination.

                   Operational
                   Open
                   Closed
                   Closed, no final cover
                   Closed, final cover

                   For 70 records in the database, the STATUS field contains entries that do not correspond to the IEPA values. The definitions of these values are not specifically identified but do provide some descriptive information about the status of the site:

                   Abandoned, Active, Closed w/ Solid Cover, Current, Inactive, Inactive/Closed, No Cover, Other, Partially Cleaned, Standby Well, Unauthorized

PERMIT STATUS　　　　IEPA's permit status.
Authorized (by Rule/Future application of permit authority under Chapter 7 of
　　　　the Illinois Revised Statutes)
Permitted
Permitted Temporary (permit with time frame)
Permitted Default (agency failed to act in time - permit issued)
Unpermitted Exempt (exempt under 21D)
Unpermitted Unauthorized
Other

For 10 records in the database, values for PERMIT appear that do not correspond
with the above descriptions:

Does Not Apply, Not Classified, See Comments, Closed

PERMIT DATE　　　　　　　　Date permitted by IEPA. In most cases, the format for this field is
MMDDYY. This coding for this format is MM = Month, DD = Day, and
YY = Year. Sometimes a different format will appear.

REMEDIAL ACTION　　Remedial status of site (all that apply).
　　　　　　NPL　　　　　　　(National Priority List)
　　　　　　PNPL　　　　　　(Proposed NPL)
　　　　　　SRAPL　　　　　(State Remedial Action Priority List)
　　　　　　IHWRP　　　　　(Immediate Haz Waste Removal Project)
　　　　　　REMEDIATED
　　　　　　VOLUNTARY clean-up
　　　　　　CLEAN

RCRA SITE　　　　　　Either Part A or Part B permitted. Y = Yes.

FORMER SITE　　　　　Former site; has since been completely cleaned. Y = Yes, Blank = No

"X" also appears as an entry for 10 records in the database.

ILLEGAL DUMP　　　　Illegal dump from IEPA "Illegal" Segment File.
　　　　　　A = Random dump
　　　　　　B = Open dump
　　　　　　C = Abandonment
　　　　　　D = Non-permitted transporter
　　　　　　Z = Other

For 27 records in the database, the values "X" or "Y" appear in this field. Unclear
definition.

DATE DISCOVERED　　Date site discovered (for "Illegal" sites only).

DATE CLEANED　　　　Date site cleaned (for "Illegal" sites only).

OFFSITE WASTES ACCEPTED　　　　Were wastes generated off-site accepted? Y = Yes, N = No

SIZE OF DISPOSAL AREA　　　　Size of actual waste disposal area in acres.

Physical or Plan Information

LEACHATE COLLECTED   Leachate collected at site. Y=Yes, N=No, Blank=No

LINER MATERIAL   Type of liner material used for landfill.
        A = Recompacted clay
        B = In situ clay
        C = Synthetic material
        D = Combination
        E = None
        Z = Other

        One record contains an "X" . Meaning is not clear.

MONITORING   Groundwater monitoring has been conducted. Y = Yes, N or blank = No

        One record contains an "X" . Meaning is not clear.

Reports

These items refer to the availability of various types of hydrogeologic reports, and which agencies have them.

HWRIC   Hazardous Waste Research & Information Center, Department of Energy and Natural Resources
IEPA   Illinois Environmental Protection Agency
ISGS   Illinois State Geological Survey, Department of Energy and Natural Resources
Other

Other Information

These items refer to the availability of additional information. Each data item represents a specific type of study. Abbreviated entries identify where it can be obtained or where it is on file:

1   Previous studies
2   Site plans
3   Records of operation
4   Monitoring data
5   Other records
6   Legal actions
7   Identification # of site in impoundment inventory
    Possible Values:
        IEPA (Illinois Environmental Protection Agency)
        ISGS (Illinois State Geological Survey)
        IDPH (Illinois Dept. of Public Health)
        IDNS (Illinois Dept. of Nuclear Safety)
        ISWDA (Intergovernmental Solid Waste Disposal Association of Champaign
            County)
    Other values that appear in this section:
    Closure Plans, County, Local Public Health District, Madison County Sanitary Department, NIPC, X,Y (No clear description of what is meant by "X" or "Y")

APPENDIX 2: REFERENCE MATERIAL FOR INDIVIDUAL RECORD DISPLAY

INVENTORY OF LANDBASED DISPOSAL SITES

Description   File created through HWRIC contract with Illinois State Geological Survey to develop a comprehensive computer inventory of landbased waste disposal sites. The inventory includes historical and currently active sites of all types: municipal, industrial, hazardous, impoundments, etc. The file includes information from IEPA's Comprehensive Inventory of Special Waste Handlers. Records of all sites identified in that file as landfills, disposal surface impoundments, land application sites, and illegal dumps were used to create the base file. Additional sites identified through county contacts, Northeastern Illinois Planning Commission, and others were added to the file.

ITEM NAME	DESCRIPTION

IEPA	IEPA 10-digit identifier based on FIPS Geographic Coding Scheme. First 1 or 2 digits may be blank.
	    Digits 1-3 = County
	    Digits 4-6 = Township or Municipality
	    Digits 7-10 = Numeric sequence within township or municipality
	
	Special IEPA: Alternate # assigned if no IEPA or USEPA # exists. In these cases, IEPA # listed as County FIPS code followed by 9999999. There are over 500 records in the database with this type of IEPA format. All such records for a particular county will have the same IEPA number.

USEPA	USEPA 12-character identifier.
	    Characters 1-2 = State
	    Character 3 D = Dunn & Bradstreet #
	             T = Temporary Dunn & Bradstreet #
	       Integer = Federal facility
	    Characters 4-12 = the actual Dunn & Bradstreet #, except federal facilities, which are identified by a GSA #.

SITE-NAME	Name of site or facility.
PROVISIONAL	There are 569 records that have a meaningful value for this field. Definition of this field is not clear.
COUNTY	County in which site is located. There are 3 county names found in the database that are misspelled or formatted inconsistently (LASALLE, PUTNAM, and ROCK COUNTY). Four of the database records contain these inconsistent county names.
CITY	City in or near which site is located. There are some formatting variations which occur in this field. In some cases a city name is followed by "TWP" or "TOWNSHIP". A more complete search of the database for a particular city might be conducted using both the city name and the city name plus "TWP".

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LATITUDE	Latitude of site given in degrees/minutes/seconds. A quick review of the values found in this field revealed 13 records in which the latitude seem to be out of the range of valid latitude values for the state.
LONGITUDE	Longitude of site given in degrees/minute/seconds. A quick review of the values found in this field revealed 12 records which seem to be outside the range of valid longitude values for the state.
PM	Principal meridian reference of legal description.
TOWNSHIP	Township of legal description.
RANGE	Range of legal description.
SECTION	Section of legal description.
QS1	Largest quarter section subdivision.
QS2	
QS3	
QS4	Smallest quarter section subdivision.
	Some values in these fields do not correspond with the definition of quarter section. Approximately 60 records contain quarter section information that is difficult to interpret.
X	X coordinate of site location in Lambert conformal conic projection in feet; derived from information in LL or Legal record fields.
Y	Y coordinate as above.
OWNER	Name of site owner.
OPERATOR	Name of site operator.
SIZE	Size of disposal site in acres.

D data items refer to source of information. All sources used will be "X".

D1	IEPA	(Illinois Environmental Protection Agency)
D2	ISGS	(Illinois State Geological Survey)
D3	PCB	(Pollution Control Board)
D4	IDM&M	(Illinois Department of Mines & Minerals)
D5	DPH	(Illinois Department of Public Health)
D6	Local	
D7	Agency	

In addition to "X", 11 other entries appear in this field. Most of the records with these entries (approx. 575) are from NIPC and NIPC reports (Northeastern Illinois Planning Commission).

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D8   Other
                            In addition to "X", 25 other entries appear in this field for approximately 190
                            records. These non-"X" entries include references to the following reports or
                            organizations:

                            CBS '33 - Chicago Bureau of Streets 1933
                            CDPW - Chicago Dept Public Works 1906
                            Chicago Tribune
                            HWRIC Research Reports
                            NIPC and NIPC Reports
                            RCRA - TSD
                            USEPA - CERCLIS

TYPE-DISPOSAL   Type of disposal facility (can be more than one).
                                    A = Open dump
                                    B = Secured containers
                                    C = Landfill
                                    D = Incineration
                                    E = Surface impoundment
                                    F = Land application

F   data items refer to the availability of various types of hydrogeologic reports, and which agencies
        have them.
                                    P   = Preliminary
                                    D   = Detailed
                                    PD   = Both preliminary & detailed
                                    NO   = No report available
F1   HWRIC (Hazardous Waste Research & Information Center)
F2   IEPA (Illinois Environmental Protection Agency)
F3   ISGS (Illinois State Geological Survey)
F4   Other

TYPE OF WASTE AT THE SITE

GENERAL	General solid waste
MUNI	Municipal sewage sludge
SEPTIC	Septic sludge
ANIMAL	Animal waste
PATH	Pathological
IND	Industrial
FSAND	Foundry sand
IASH	Incinerator ash
SLAG	Slag
HAZARDOUS	Hazardous solid waste
HAZ-LIQ	Hazardous liquid waste
RAD	Radioactive waste
DEMODEBRIS	Demolition debris
CONCRETE	Concrete or asphalt
LANDSCAPING	Landscaping debris
BRINE	Oil field brine
SPECIAL	IEPA Special Waste
NONHAZ	Nonhazardous waste

| OTHER | Other waste |
| UNKNOWN | Unknown waste |

STATUS IEPA's operational status determination.
   Operational
   Open
   Closed
   Closed, no final cover
   Closed, final cover

For 70 records in the database, the STATUS field contains entries that do not correspond to the IEPA values. The definitions of these values are not specifically identified but do provide some descriptive information about the status of the site:

   Abandoned, Active, Closed w/ Solid Cover, Current, Inactive, Inactive/Closed, No Cover, Other, Partially Cleaned, Standby Well, Unauthorized

PERMIT IEPA's permit status.
   Authorized (by Rule/Future application of permit authority under Chapter 7)
   Permitted
   Permitted Temporary (permit with time frame)
   Permitted Default (agency failed to act in time - permit issued)
   Unpermitted Exempt (exempt under 21D)
   Unpermitted Unauthorized
   Other

For 10 records in the database, values for PERMIT appear that do not correspond with the above descriptions:
   Does Not Apply, Not Classified, See Comments, Closed

PDATE Date permitted by IEPA. In most cases, the format for this field is MMDDYY. Sometimes a different format will appear.

ODATE Date site opened.

CDATE Date site closed.

REMEDIAL Remedial status of site (all that apply).
   NPL   (National Priority List)
   PNPL   (Proposed NPL)
   SRAPL   (State Remedial Action Priority List)
   IHWRP   (Immediate Haz Waste Removal Project)
   REMEDIATED
   VOLUNTARY clean-up
   CLEAN

RCRA Either Part A or Part B permitted. Y = Yes.

MONITORING Groundwater monitoring has been conducted. Y = Yes, N or blank = No

FORMER   Former site; has since been completely cleaned. Y = Yes, Blank = No
                        "X" also appears as an entry for 10 records in the database.

ILLEGAL   Illegal dump from IEPA "Illegal" Segment File.
                                A = Random dump
                                B = Open dump
                                C = Abandonment
                                D = Non-permitted transporter
                                Z = Other

                        For 27 records in the database, the values "X" or "Y" appear in this field. Unclear
                        definition.

DDATE   Date site discovered (for "Illegal" sites only).

CLDATE   Date site cleaned (for "Illegal" sites only).

C1   Comment 1.
C2   Comment 2.

I   Data items refer to the availability of additional information. Each data item represents a specific
        type of study. Abbreviated entries identify where it can be obtained or where on file:

                IEPA (Illinois Environmental Protection Agency)
                ISGS (Illinois State Geological Survey)
                IDPH (Illinois Dept. of Public Health)
                IDNS (Illinois Dept. of Nuclear Safety)
                ISWDA (Intergovernmental Solid Waste Disposal Association of Champaign County)

I1   Previous studies
I2   Site plans
I3   Records of operation
I4   Monitoring data
I5   Other records
I6   Legal actions
I7   Identification # of site in impoundment inventory

        Other values that appear in I data:

                Closure Plans, County, Local HD, Madison County Sanitary Department, NIPC,
                X,Y (No clear description of what is meant by "X" or "Y")

LEACHATE-COL   Leachate collected at site.

LINER-MATERIAL   Type of liner material used for landfill.
                                A = Recompacted clay
                                B = In situ clay
                                C = Synthetic material
                                D = Combination
                                E = None
                                Z = Other
                        One record contains an "X" . Meaning is not clear.

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OFFSITE-WASTE Were wastes generated off-site accepted. Y = Yes, N = No

        One record contains an "X" . Meaning is not clear.

SIZE-FILL   Size of actual waste disposal area in acres.

RECNO   Record number within computer file.

LAST-UPDATE Year this information was last updated.

        The following values appear in this field:

           Added 5/55/89
           NIPC 88
           SEG3 88
           SEG5 88
           SEG6 88
           SEGB 88

        The SEG entries refer to an 1988 copy of the IEPA Comprehensive Inventory of
        Special Waste Handlers. The different segments refer to different types of
        facilities (3=Landfills, 5=Surface Impoundments, 6=Land Application, B=Illegal
        Sites).

MAP   Method or location information used to generate computer point location. In all
        cases except the last two, the computer places the point in the geographic center
        of the area.
        LL = Latitude, longitude
        LEG = Legal description; section, township,range & quarter sections if known
        CIT = City
        ZIP = Zip code
        ZPT = Zip code, bisected by township if known
        ZCY = Zip code, bisected by county
        OLD = Mapped from old maps and records
        MAN = points were generated by ARCEDIT from manual placement of cursor.

        Other entries that appear in map field of 67 records (no definitions):

           FIX, TWP (Township: part of the legal description), UNK (Unknown),
           ZTP

SURCHRG   Not used.

ILLEGALTYPE Not used.

NIPCMAP   Site number as identified on NIPC landfill maps.

MAPCOMMENT Explanation of change/correction in method used to map site.

APPENDIX 3: FEEDBACK FORM
INVENTORY OF LANDBASED DISPOSAL SITES

We would appreciate your time in evaluating this program from the Hazardous Waste Research and Information Center. We recommend that you use the program for a while before filling out this form. Your comments can help us improve our service to citizens of the State of Illinois.

Mail To :   Hazardous Waste Research and Information Center   -OR-   FAX
Attn: Data Management Officer   (217) 333-8944
One East Hazelwood Dr.
Champaign, IL.   61820

Please Circle One Number for Each Question
Agree   Disagree

1)   Do you find this program useful?   1   2   3   4   5

Comments:_____

_____

_____

2)   Is the information presented in the database useful?   1   2   3   4   5
Comments:_____

_____

_____

3)   Is the program user interface easy to use?   1   2   3   4   5

Comments:_____

_____

_____

4)   Is the manual easy to use and understand?   1   2   3   4   5

Comments:_____

_____

_____

Other Comments : _____

_____

_____

HWRIC