

ERPTools/PC 4.0.0
User Manual
Validation Rules Version 4.0.0

**Environmental Resources Program Information Management System
(ERPIMS)**
Software Engineering And Maintenance Support

7 July 2003



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(Contracting agency)

Approved by _____
(Contractor)

Date _____

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1. AFCEE

The Air Force Center for Environmental Excellence (AFCEE), is one of three service centers supporting Air Force Major Commands (MAJCOMs) and their installations in conducting Installation Restoration Program (IRP) remedial investigations and feasibility studies. The objective of the Air Force integrated IRP is to assess past hazardous waste disposal and spill sites on Air Force installations and develop remedial actions consistent with the National Contingency Plan (NCP) for those sites which pose a threat to human health and welfare or the environment. All aspects of the IRP must be in compliance with provisions of Public Law 96-510, the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) and Public Law 99-499, Superfund Amendments and Reauthorization Act of 1986 (SARA); with Environmental Protection Agency regulations; and with all applicable state laws and regulations.

IRP investigations and studies involve extensive fieldwork and the collection and analysis of groundwater, surface water, sediment, soil, air, socioeconomic and ecological data. The Mission Support Computer (MSC) Division maintains all data collected in these efforts Air Force wide in the Environmental Resources Program (ERP) Information Management System (ERPIMS). The Air Force has directed ERPIMS to be the central database for the entire Air Force ERP. This data is ultimately used by an in-house staff consisting of contract specialists, analytical chemists, biologists, hydrologists, environmental engineers, civil engineers, and system analysts. The data will also be made available to personnel external to AFCEE.

ERPTools/PC has been developed by AFCEE for distribution to contractors to assist them in preparing ERPIMS data submissions. The goal is the production of data files that accurately describe ERP data. ERPTools/PC has also incorporated the ERPIMS functionality of ERPTools/LAB and will allow laboratories to create submission files that are sent to their Prime contractors.

1.1 IDENTIFICATION

This User Manual provides step-by-step operating instructions to end users of ERPTools/PC v. 4 in support of ERPIMS. It is organized into sections, including:

- 1 AFCEE
- 2 Referenced Documents
- 3 System Overview
- 4 What's New in Version Four
- 5 Setup and Configuration
- 6 Using ERPTools/PC
- 7 Techniques
- 8 Menus and Toolbars
- 9 Error Messages

- 10 Acronyms
- 11 Table Descriptions
- 12 Import/Export Specifications
- 13 Valid Value Lists
- 14 Table Field Descriptions
- Index

1.2 AFCEE SUPPORT

AFCEE is responsible for ERPTools/PC. This user manual has been designed for distribution to assist contractors in preparing data submissions using ERPTools/PC. Written inquiries concerning the user manual, help files, ERPTools/PC or ERPIMS should be addressed to:

HQ AFCEE/MS
Attn: ERPIMS
3207 North Road, Bldg 532
Brooks AFB TX 78235-5363

World Wide Web: <http://www.afcee.brooks.af.mil>
WWW ERPIMS: http://www.afcee.brooks.af.mil/MS/msc_irp.htm
(Access the ERPIMS website by selecting the Help→Tech Support option in ERPTools/PC.)

In addition, AFCEE provides the ERPIMS Help Desk
1-877-ERPIMS3 (377-4673)

Fax: (210) 223-8820

ERPIMS Help Desk
118 Broadway, Ste 316
San Antonio, TX 78205

2. REFERENCED DOCUMENTS

The following documents of the exact issue shown are referenced in this plan. This section also identifies the source for all documents not available through normal Government stocking activities.

- FIPS PUB 183, 21 December 1993, Integration Definition for Function Modeling (IDEF0).
- FIPS PUB 184, 21 December 1993, Integration Definition for Information Modeling (IDEF1X).
- DoD 8320.1-M1, January 1993, DoD Data Element Standardization Procedures.
- DoD 8320.1-M-X, November 1994, Enterprise Data Model Development Approval and Maintenance Procedures.
- MIL-STD-498, 5 December 1994, Software Development and Documentation.
- MIL-STD-1521B, 19 December 1985, Notice 1, Technical Reviews and Audits for Systems, Equipment and Computer Software.
- PWS F41624-97-D-8014-0006, dated 4 August 1998, Support and Maintenance for Air Force Environmental Resources Program Information Management System (ERPIMS) and Support Systems.
- AFCEE Software Programming Standards, 18 June 1998.
- AFCEE Software Design Standards, 20 March 1998.
- IRPIMS Data Loading Handbook Version 4.0, July 1997.
- AFCEE Configuration Management Standard.
- F41624-97-D-8014-0002, 13 February 1998, Interface Requirements Specification (IRS) for ERPTools/Convert, Environmental Resources Program Information Management System (ERPIMS).

3. SYSTEM OVERVIEW

ERP Contractors are required to submit data files to AFCEE in electronic formats compatible with the ERPIMS database. ERPTools/PC was developed by AFCEE for distribution to those contractors.

3.1 PURPOSE OF ERPTOOLS/PC

ERPTools/PC prepares data submissions that comply with ERPIMS Data Loading Handbook (DLH) specification 5.0. It incorporates a number of automatic error checking routines to identify duplicate record sets; incorrect date/time/number formats; invalid codes; failure to complete required data fields essential for file integrity and field, record and submission level validation.

ERPTools/PC v. 4 supports validation rules, which have a separate version number. These validation rules may be changed and re-issued more often than the basic program. It also incorporates the capabilities of the ERPTools/LAB program designed for laboratories processing samples for prime contractors.

3.2 ERPTOOLS PROJECTS

There are two types of projects in ERPTools/PC. There are Prime projects and Lab projects. A Prime project is a grouping of ERPIMS data that belongs to a particular contract, delivery order and installation. A Lab project is strictly the Sample, Test, and Results information that is needed for the lab's Prime contractor. Under this version of ERPTools/PC each project's files are maintained in a separate database file, in a related set of tables.

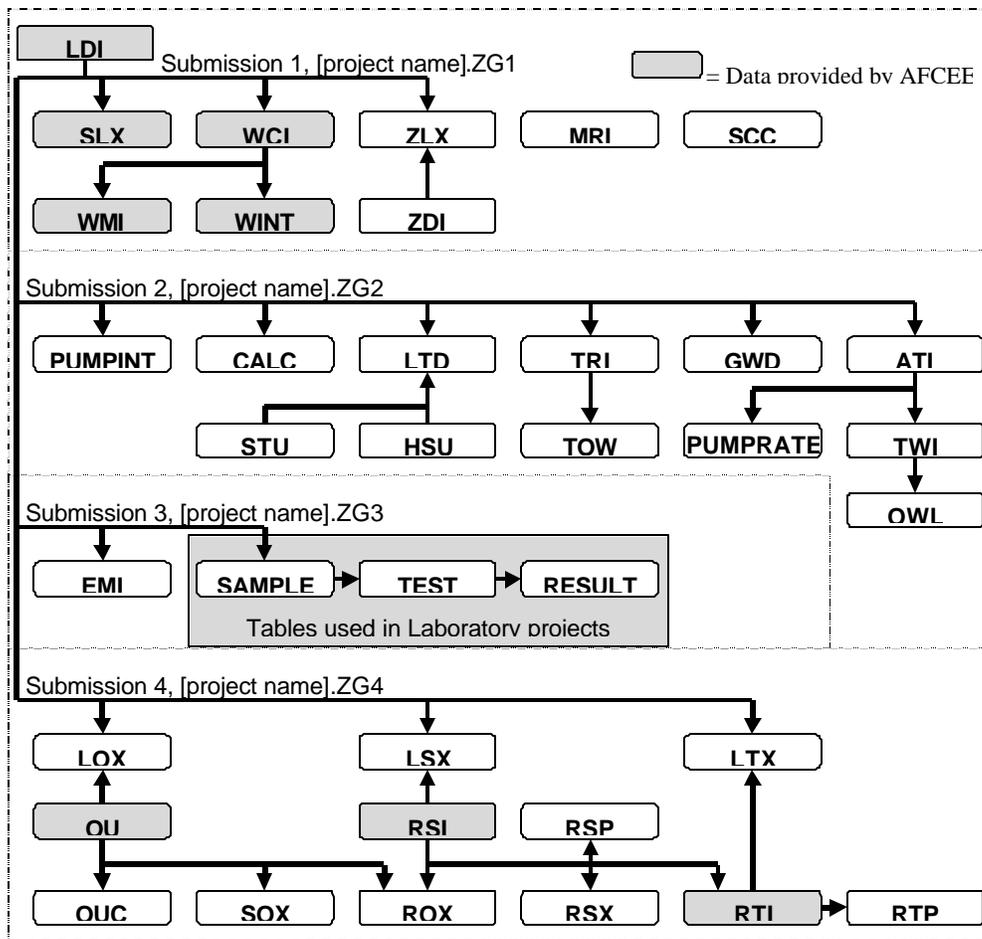


Figure 3-1 Table Relationship Structure

It is important to understand these relationships because they are the basis to the operation of ERPTools/PC. The relationships can be compared to a family tree. LDI is the parent to fourteen tables, including SAMPLE. SAMPLE has one child, TEST, and TEST has one child, RESULT. There are several cross-reference tables (usually identified with an “X” in the name) that tie data between two associated tables.

One place where these relationships come into play is when a record is added or deleted. A record cannot be added to a child table if there is no parent. For example, a TEST record cannot be inserted if there are no SAMPLE records.

Data entry is also affected. If one user is importing to or editing a table, no other table in that line, either parent or child, may be edited.

Deleting records is far more serious. If a parent record is deleted, ALL CHILDREN of that parent are deleted. Delete a TEST record and all results for that test are deleted. Delete a SAMPLE record and all TEST and RESULT that are related are deleted. Delete a location record (LDI) and all data related to that LDI record is deleted in SAMPLE, TEST, RESULT

and all the other tables subordinate to LDI. There is no way to prevent this automatic deleting of child records.

A project of either type is created using the Create Project menu command. ERPTools/PC users can change from one project to another using the File→Open Project menu command. Project information can be edited using the File→Edit Project Info command.

A project may be deleted using the File→Delete Project menu command. Only administrative users can create, edit, and delete projects.

3.2.1 Types of ERPIMS Data

ERPTools/PC can be used to prepare the following types of Prime and Lab ERPIMS data:

3.2.1.1 PRIME CONTRACT DATA

Analytical Result (RESULT)	Pumping Interval (PUMPINT)
Aquifer Test (ATI)	Remediation and Operable Unit Cross Reference (ROX)
Calculated Hydrology (CALC)	Remediation and Site Cross Reference (RSX)
Contract (PROJECT)	Remediation System (RSI)
Environmental Measurement (EMI)	Remediation System Performance (RSP)
Groundwater Level (GWD)	Remediation Technology (RTI)
Hydrostratigraphic Unit (HSU)	Remediation Technology Performance (RTP)
Lithologic Description (LTD)	Sample Collection (SAMPLE)
Location (LDI)	Site and Operable Unit Cross Reference (SOX)
Location and Operable Unit Cross Reference (LOX)	Site Contamination (SCC)
Location and Remediation System Cross Reference (LSX)	Stratigraphic Unit (STU)
Location and Remediation Technology Cross Reference (LTX)	Test Procedure (TEST)
Location and Site Cross Reference (SLX)	Test Well (TWI)
Location and Zone Cross Reference (ZLX)	Tracer Injection (TRI)
Map Reference (MRI)	Tracer Observation Well (TOW)
Observation Well Water Level (OWL)	Well (WCI)
Operable Unit (OU)	Well Construction Interval (WINT)
Operable Unit Contaminant (OUC)	Well Maintenance (WMI)
Pump Rate (PUMPRATE)	Zone (ZDI)

Figure 3-2 Types of Prime Contract Data

3.2.1.2 LAB CONTRACT DATA

Analytical Result (RESULT)	Sample Collection (SAMPLE)
Contract (PROJECT)	Test Procedure (TEST)

Figure 3-3 Types of Lab Contract Data

3.3 USER RESPONSIBILITIES

Responsibilities for the use and maintenance of ERPTools/PC are shared by AFCEE and the two types of users, Admin and Data Entry, designated by contractors.

3.3.1 AFCEE Responsibilities

AFCEE/MSD sends historical data to users engaged in new projects and maintains the list of current VVL values. The final submission is sent to AFCEE/MSD for approval before bading it into the ERPIMS database.

3.3.2 Admin User Responsibilities

Admin users are responsible for the configuration of ERPTools/PC and all the official communications between AFCEE and the user's organization. Admin privileges are required to create projects, user accounts and local methods. Admin users are also the only ones authorized to load VVLs and AFCEE supplied data. Finally, the submission process and the data files utilities are also the responsibility of the Admin user. The Admin user role includes all the functions of the Data Entry user.

3.3.3 Data Entry User Responsibilities

Data Entry users perform tasks related with creating and editing data until it is valid, including local import, local export, and field and record validation.

3.4 USER SECURITY

ERPTools/PC security is based upon a username/password system. Users are granted either Administrative or Data Entry privileges. Administrative users have full system privileges including the ability to create and delete projects; import, export and create submission files; create, modify, or delete users. Data entry users can only open an existing project, edit data and change their own password.

Warning: Once a user's password is entered and ERPTools/PC opens there are no further limits to access. If a user, either Administrative or Data Entry, leaves the computer unsupervised an unauthorized user will have full access as if authorized. Users should always close ERPTools/PC before leaving the workstation.

4. WHAT'S NEW IN VERSION FOUR

So you are an experienced ERPTools/PC user and want to know what has changed. The changes can be broken into Database Changes and Business Process Changes.

4.1 DATABASE CHANGES

The database changes that were made can be divided into changes to the structure of the base tables, changes to the structure and location of the support tables, and adding new support tables.

4.1.1 Base Table Changes

4.1.1.1 TEST TABLE

- Changed the length of the LABSAMPID from 12 characters to 20 characters. This has changed the import/export specification for the Test table.

4.1.1.2 RESULT TABLE

- Changed DILUTION from a long number (no decimals allowed) to a floating point number (can have up to four decimals). This has changed the import/export specification for the Result table.
- Added PERCENT_RECOVERY, RPD, UPPER_ACCURACY, and LOWER_ACCURACY fields. These fields existed in the current ERPTools/LAB data structure and it was decided to include them in the Prime project data structure for this new version of ERPTools/PC. These fields will **not** be included as part of a submission, but they are included as part of a Local Import/Export. This has changed the import/export specification for the Result table.

4.1.1.3 EMI TABLE

- A Data Quantifier field was added.

4.1.1.4 ALL TABLES

- Added RECNO, VALSTATUS, and SUBMDATE fields. These are internal fields used to track record status. They are not included in either submission or import/export files.

4.1.2 Support Table Changes

4.1.2.1 LOCAL METHODS TABLES

- The Local Methods tables have been moved from the reference database (REFINFO97.MDB for the previous version of ERPTools/PC) into the Project databases. This removes the problems some users had with Local Methods when the Project Name field in the Local Methods table did not exactly match the Project Name for the currently open project.

- Added RPD, UPPER_ACCURACY, and LOWER_ACCURACY fields. These fields existed in the current ERPTools/LAB data structure and it was decided to include them in the Prime Local Methods data structure for this new version of ERPTools/PC. These new fields will be included with the data inserted into the Result table during the Create Default Results process.
- Local Methods data can be exported and imported between projects.

4.1.2.2 VVL TABLES

- Added the following four Valid Value tables: EXT_AMC (Extraction Method – Analytical Method Category Cross Reference), PRC_AMC (Parameter Classification Code – Analytical Method Category Cross Reference), and VVLAMC (List of authorized Analytical Method Categories), and VVLEDQ (EMI Data Qualifier).
- Changed VVLANM to include the AMC field.
- These changes were made to support several new validation rules.

4.2 BUSINESS PROCESS CHANGES

There are many changes to the way ERPTools/PC now works; new features, improved functionality, and modifications to some of the processes that are used.

4.2.1 Project Types

- ERPTools/PC now supports both Prime project and Laboratory project types. The Prime project type is essentially what was used in the previous version of ERPTools/PC. This project captures data from the location down to the results and also remediation data. The Lab project type is an ERPTools/LAB ERPIMS project without any of the QAPP calibration data. The Lab project type is only concerned with data from samples through results. Lab projects will not need to have any location data.

4.2.2 Import

The import process is similar to the ERPTools/LAB process with some minor differences. For users of previous versions of ERPTools/PC the Import process is quite different.

- The first difference is the data from the import files moves directly into the base data tables and not into temporary tables. A log file (*.LOG) is always created for each import and three additional files may be generated during an import. The three additional files are an error file (*.ERR), a duplicates file (*.DUP), and a referential integrity file (*.REF). These three files contain the actual data records that were rejected during the import because of errors, duplicates, or referential integrity issues.
- The Log file shows the record number of the record in the original import file, the problem type and a longer description of the problem. The problem types will be either a field name or one of the following:

- UNK (unknown error – Usually a database constraint error and the actual error generated is reported)
- DUPREC (this record is a duplicate record that WAS NOT overwritten)
- CRDDUP (LDI table only – the coordinates in this record duplicate existing coordinates)
- DUPOVR (this record was a duplicate but used to overwrite the existing record)
- DUPIDX (this record is a duplicate because of a secondary index on the table. This is similar to the CRDDUP error)
- REFINT (there was a referential integrity error with this record. It is missing a parent record in one or more tables).
- Those records where the problem type is a field name will be present because of a variety of data type problems, i.e. dates that are not dates, numbers that contain letters, bad format, etc. The problem description will give a clear reason why the record was rejected.
- Below is an example of the contents of a Log file.

```

ERPTools/PC Data Import - 07-Sep-2000 12:29
C:\TestDbs\Prime Import\ImportCALC.txt => CALC
Overwrite Duplicates => OFF

Record: 2      UNK      Unknown Error. Err = 3314, The field 'CALC.LOCID
Record: 3      AQBASEDEPTH  Field is not a number
Record: 4      AQTHICK      Field is not a number
Record: 5      UNK      Unknown Error. Err = 3314, The field 'CALC.LOGDA
Record: 6      LOGDATE     First date delimiter (-) is missing from position
Record: 6      LOGDATE     Second date delimiter (-) is missing from positio
Record: 6      LOGDATE     Field does not contain a valid date
Record: 6      LOGDATE     The Year must be a 4 digit year (i.e. 2001)
Record: 7      UNK      Unknown Error. Err = 3058, Index or primary key
Record: 8      LOGTIME     Field does not contain a valid time
Record: 9      LOGTIME     Field does not contain a valid time
Record: 10     LOGTIME     Field does not contain a valid time
Record: 11     LOGTIME     Field does not contain a valid time
Record: 12     DUPREC      Duplicate record
Record: 13     REFINT      Referential integrity error
Record: 14     WTDEPTH     Field is not a number
Record: 15     REFINT      Referential integrity error
Record: 16     AFIID       AFIID does not match project definition
Record: 17     WELLDIST   Field is not a number
Record: 18     PARUAL     Field is not a number

Import completed at 07-Sep-2000 12:29
1 records appended, 0 records replaced.

```

Figure 4-1 Typical Log File

- The user can now select to overwrite duplicate records. This can be used to update parent records without having to delete the child records.
- Apart from the validation that was previously mentioned, no validation will occur during import. All records imported will be flagged with a VALSTATUS of NV.

4.2.3 AFCEE Supplied Data

- AFCEE supplied data is loaded into a project in a similar manner to the import where the AFCEE data is loaded for a specific project. Unlike the previous version of ERPTools/PC where the user had to load AFCEE data into special AFCEE tables and then use a secondary process to move the data over to the project, in this version the user will only have to load the AFCEE data directly into the project.

4.2.4 Validation

- If validation does not occur during import, when does it occur? Field and Record validation occurs from the Data Entry screens when you want or need it to happen. After you have imported some data, go to the data entry screen, make changes (if necessary), apply a filter (if necessary), and click the Validate button on the toolbar or select the Edit→Validate Current View option. The current set of data in the data entry screen will be validated for Field and Record errors. Once the validation is complete and there are errors you will be given the option of opening the Error Editor screen. If there were no errors you will be returned to the data entry screen and the VALSTATUS field is set to FR. You can also start Field and Record validation from the Data→Field & Record Validation menu option. This will present a list of all the tables from which you select the tables you want validated. The table list allows for multi-select of tables.
- If you make changes to data using the data entry screens several things will happen before the data is written to the database. The system automatically prevents records with invalid key field information from being saved. If you find that you cannot move off a record, click the save record toolbar button. An error message will open telling you either which fields are missing or that a duplicate record would be generated if the record was saved. You are also prevented from entering invalid data types. If the record passes these system checks the VALSTATUS field is changed to NV and the UPUSER and UPDATE fields are changed to reflect the current user and date and time.
- The Error Editor is very similar to the Error Editor in previous versions of both ERPTools/PC and ERPTools/LAB. The primary difference for ERPTools/PC users is you can now select to display data “By Error” or “By Record.” If you select “By Error,” all the records that have the error you select in the top portion of the Error Editor will be displayed. If you select “By Record” then all the errors for the record you select will be displayed. You can also revalidate the data directly from the Error Editor.

4.2.5 Submission Validation and Creation

- Submissions for Prime projects are still formatted in the four groups. Lab projects use only Group 3. What has changed is that you can now submit data based on three different criteria. As before, you can submit all data in a group. In addition, you can now submit only new data, i.e. data with a null SUBMDATE field, or re-submitting previously submitted data by selecting a submission date. With this last option you are provided with a list of submission dates for the group you are submitting.

- In order to create a submission file the data selected must pass all submission level validation rules. Therefore you cannot create a submission if any of the selected data has not passed Field and Record level validation. When submission level validation starts, ERPTools/PC will re-run all Field and Record validation for each of the tables in the submission group. If there are any Field and Record level errors the submission validation will not be run and you will be presented with an error message. If the data passes all validation then submission files are created and PDF versions of the Items of Interest report and VVL Changes report are included in the submission file.
- If you have installed ERPTools/PC in Trial Mode (i.e. Serial Number of 99999), then you can perform the submission process up to the creation of the submission file. If you are in Trial Mode then no submission file is created at the conclusion of the submission process. To upgrade your installation of ERPTools/PC see Section 6.17.5.1.

4.2.6 Export

- You can now create an export directly from the Data Entry screens in addition to selecting the table from the Table Selection List. If you choose to export from the Data Entry screen this will export only the data that is in the current set of data. If you have applied a filter only the data that matches the filter will be exported. The only exception is that you can never export AFCEE data so if you create a filter that shows only AFCEE data and then export you will end up with an empty file.

4.2.7 System Statistics

- These are a set of reports and a screen that will help you manage your Local Methods, VVLs, and validations. There are two reports on the current project's Local Methods, a Submission Status report which details the number of records in each table according to validation status, and a Changed VVL report. You can also open a Validation History Screen that will show you the validation history for the active project and allow you to delete history records.

4.2.8 New Reporting Features

ERPTools/PC no longer uses Crystal Reports™ for its reporting tool. The reports are now an integral part of ERPTools/PC. This allows us to do more complicated reports and to provide a couple of new features for you the user.

- You no longer have to make any changes because you already use a different version of Crystal Reports™.
- You now have the ability to save your reports in either PDF or RTF formats.
- All Field and Record Errors reports have an interactive Table of Contents (TOC) that allows you to click on an error and move to that part of the error report.

- We have added the capability to print a rudimentary report from the data entry screen. This report uses some features in the data entry grid itself and does not let you save the reports in PDF or RTF formats. You can preview or print all the data in the current data entry screen, or selected records only.

4.2.9 Filtering Records

- ERPTools/PC has an improved Filter capability. The new Filter allows you to build complex filters without detailed knowledge of the SQL language. You can also combine sorts (Order By) with your filters. If a filter or sort is active on a Data Entry screen an orange box will appear in the bottom right of the screen. You can right-click on the box and the current filter will be displayed.

4.2.10 Find and Replace

- Find and Replace now allows you to search for a Null or Empty field and also do a replace on a Null or Empty field.

4.2.11 Create Default Results

- The Create Default Results screen has changed. When you open the screen you will see all Test records that do not have any Result records. In addition, you can immediately tell whether you will be able to create default results for a particular test. The screen indicates whether there is a Local Method that can be associated to a Test record by comparing the ANMCODE in the Test record and the associated parent Sample's MATRIX to the ANMCODE/MATRIX combinations in the Local Methods table. Any Test record that does not have an associated Local Method is highlighted in yellow.
- Once the default results are created you are asked if you want to open the Result Data Entry screen and see the newly added records. If you choose to do so, the Result Data Entry screen is opened with the filtered set of the results that were just added.

4.2.12 Help and Tech Support Options

- There is an improved help file with better layout, table of contents, and search features. We have also changed the listing of Validation Errors so they are in Error ID order and not in Message order.
- If you have an Internet connection you can get to the AFCEE ERPIMS web site by using the Help→Tech Support menu item. This will bring up an internal web browser with the AFCEE ERPIMS web site active.

5. SETUP AND CONFIGURATION

Admin users set up and configure ERPTools/PC as a stand-alone program to run under Microsoft Windows 95 or 98, or Windows NT.

5.1 SYSTEM REQUIREMENTS

The ERPTools/PC System Requirements include hardware and software requirements and information required for configuration.

NOTE: You must have MS Internet Explorer v5.x (IE5) installed in order to install ERPTools/PC v4.x. If you do not have IE5 installed the PC installation will terminate with an error message.

5.1.1 Hardware Requirements

The minimum hardware requirements for ERPTools/PC are:

- A Socket 7 compatible CPU running at a minimum of 133 MHz.
- A minimum of 16 MB of Random Access Memory (RAM) for Windows 9x systems. NT machines should have minimum of 48 MB of memory. As with most software, the more memory the better the application will perform (especially on NT).
- An SVGA or better display capable of 800x600 resolution with 256 colors. The application is best viewed at High Color settings (16 bit color).
- A mouse or pointing device.
- At least 50 MB of available hard disk space. (Disk space is for the ERPTools/PC application only; disk space for data is not included).

Warning: The ERPTools/PC program hard drive space requirements do not include space for data. As data is added, ERPTools/PC will take up more space on the hard drive used for data storage. A minimum of three megabytes is recommended for each project.

5.1.2 Software Requirements

The minimum software requirements for ERPTools/PC are:

- Windows 9x. ERPTools/PC has been tested under Windows 95 but developed on a combination of Windows 95 and 98 SE machines and no anomalies have been detected in the Windows 98 environment.
- Windows NT SP4.

5.1.3 Other Information Required

- To completely install ERPTools/PC you will need to enter a serial number. Call the ERPIMS Help Desk to get one.

- If you are installing ERPTools/PC on a Windows NT system, you will need NT Administrator privileges and the ability to configure the registry.

5.2 SETUP AND CONFIGURATION PROCEDURES

Warning: If you are installing ERPTools/PC on a Windows NT system, you will need to have NT Administrator privileges to do so. Once the install is complete, you will have to take several additional steps to complete the install.

Note: If you want to evaluate copy of ERPTools/PC, enter 99999 as the serial number. The program will install in trial mode, and you will be able to perform all the actions except create submission files. If you register ERPTools/PC in trial mode, you can change the serial number to an active number later, using the About ERPTools/PC screen.

Double click on the Setup.exe program to begin setup. The PC4 Registration screen will open.

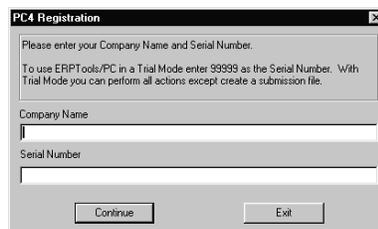


Figure 5-1 PC4 Registration Screen

Enter your company name and the serial number assigned by AFCEE. If you do not have a serial number contact the ERPIMS Help Desk. If you want to evaluate copy of ERPTods/PC, enter 99999 as the serial number. Once both fields are complete click the Continue button. The Welcome screen will open.

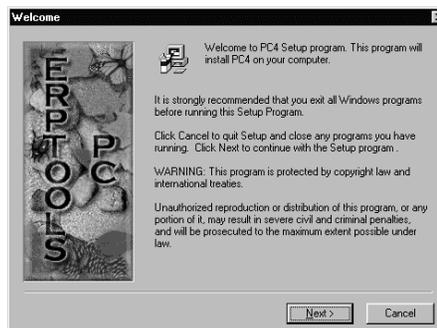


Figure 5-2 Welcome Screen

The Welcome screen will remind you to close all Windows programs before proceeding. When you are ready to proceed click Next. The Read Me File screen will open.

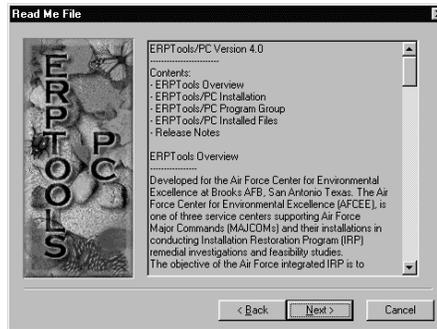


Figure 5-3 Read Me File Screen

The Read Me File contains last minute program information. Click Next, and the Choose Destination Location screen will open.

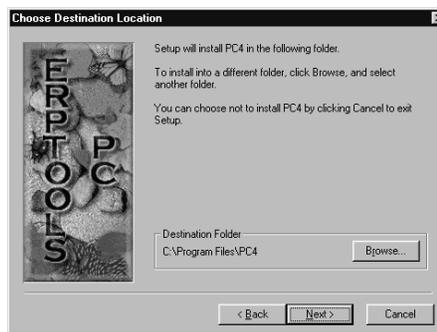


Figure 5-4 Choose Destination Location Screen

The Windows default is to place the program files in C:\Program Files\PC4. If you wish to select a different directory click the Browse button and navigate to the directory. Click Next, and the Select Program Management Group screen will open.

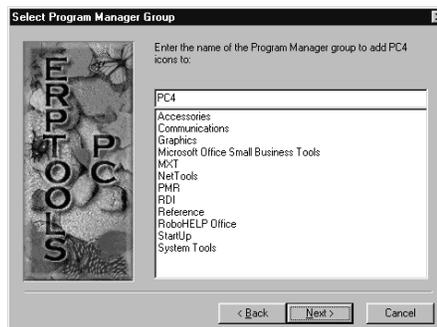


Figure 5-5 Select Program Manager Group Screen

The default is to add a program group to your start menu, named "PC4." If you want the program icons stored elsewhere, select the desired location. Click Next, and the Start Installation screen will open.

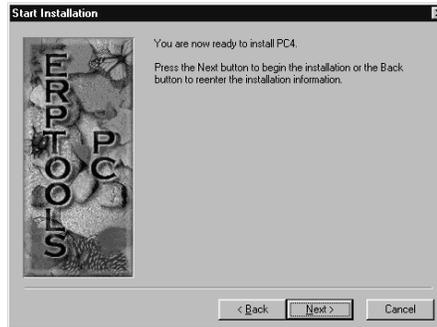


Figure 5-6 Start Installation Screen

If you are ready to load the ERPTools/PC files on your computer, select Next. The Installing screen will open.



Figure 5-7 Installing Screen

Progress bars on the Installing screen will show the progress of the installation. When the installation of files is complete the Installing screen will close. The installation program will then update the configuration of your PC, so the Updating System Configuration message will open.



Figure 5-8 Updating System Configuration Message

The message will automatically close, and the Installation Complete screen will open.

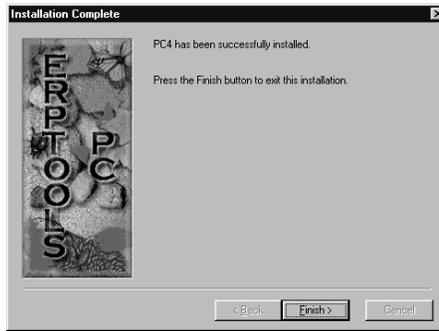


Figure 5-9 Installation Complete Screen

The Restart message will remind you that you need to restart your computer to complete setup. Depending on the current configuration of the machine ERPTools/PC was loaded onto, you may not get this message.

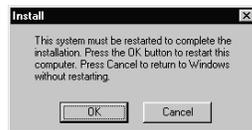


Figure 5-10 Restart Message

Click OK to restart your computer, or Cancel to close the message and return to Windows. Some of the ERPTools/PC features may not work until you restart.

Note: If you are installing ERPTools/PC on a Windows NT system, you will need to complete these additional steps, as an NT Administrator, after running the installation program.

Open the Registry and navigate to HKEY_LOCAL_MACHINE→SOFTWARE→AFCEE→PC→4.

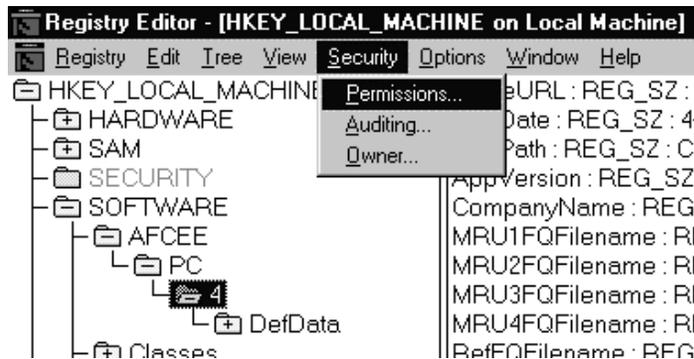


Figure 5-11 Permissions Menu

Select the Security menu and the Permissions sub-menu and the Registry Key Permissions screen will open.

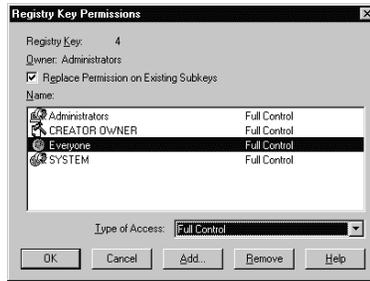


Figure 5-12 Registry Key Permissions Screen

Click the Replace Permissions on Existing Subkeys check box. Next select the Everyone name and in the Type of Access drop-down select Full Control. If you wish to assign these privileges to specific users, select the individual's name instead of the Everyone user. Your screen should look like the figure above. Click OK and the Windows NT message will open.



Figure 5-13 Windows NT Message

This change is required because ERPTools/PC reads and writes to the registry, and by default NT does not give Write privileges to standard users.

5.3 CONVERTING EXISTING PROJECTS

ERPTools/PC v. 4 uses tables and procedures that have been modified from earlier versions of ERPTools/Lab and ERPTools/PC. Therefore the projects developed with the earlier program versions must be transferred and converted before they can be loaded into this version of the software. Two conversion utilities are included in the ERPTools/PC v.4 installation to perform this task.

5.3.1 Converting Prime Projects

The PC Conversion Utility is used to convert ERPTools/PC 3.X projects into ERPTools/PC v. 4.0 lab project files.

Open the PC Conversion Utility by double clicking on its icon, or selecting the option from the Windows Start menu. The main form will open.

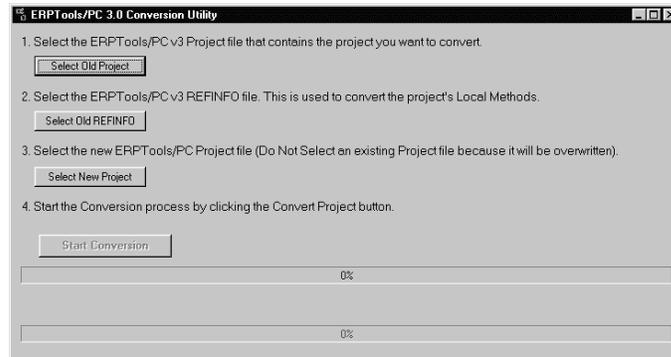


Figure 5-14 PC Conversion Utility Main Screen

Click the Select Old Project button, and a Select Project browse window will open.

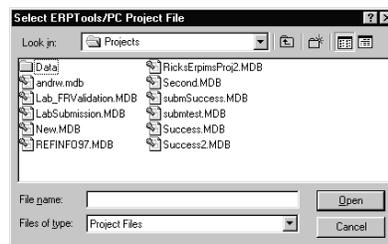


Figure 5-15 PC Conversion Project Selection Window

Select the ERPTools/PC v3 project file you want to convert and click Open. The window will close. Click the Select Old REFINFO button on the Main Screen. A Select REFINFO browse screen will open.

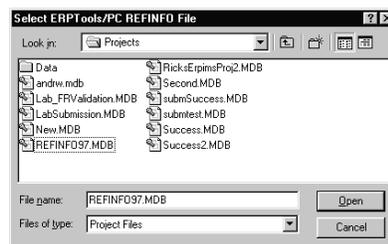


Figure 5-16 PC Conversion Select REFINFO Window

Select the REFINFO97.MDB file in the PC3 directory and click Open. The REFINFO97.MDB file is used as the source for your new project's Local Methods. The window will close. Click the Select New Project button on the Main Screen, and a New Project browse screen will open.

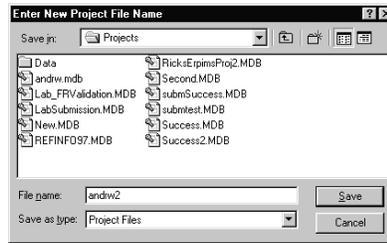


Figure 5-17 PC Conversion New Project Window

Navigate to where you want to store the new project and enter a file name. Click Save to close the window. Click the Start Conversion button to begin the process. The status bars will update as the table conversions progress.

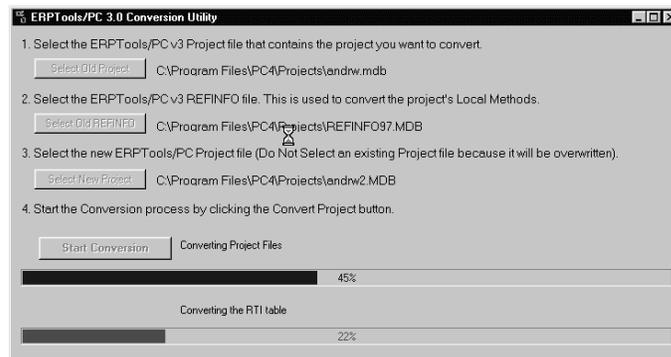


Figure 5-18 PC Conversion Screen During Conversion

When conversion is complete a message will open. Click OK to close the message, then either close the PC Conversion Main Screen or select another project for conversion.

5.3.2 Converting Lab Projects

The Lab Transfer Utility is used to convert ERPTools/Lab 2.X projects into ERPTools/PC v. 4.0 lab project files. In particular, Lab projects are now stored in separate *.MDB files rather than a single data file.

Open the Lab Transfer Utility by double clicking on its icon, or selecting the option from the Windows Start menu. The main form will open.

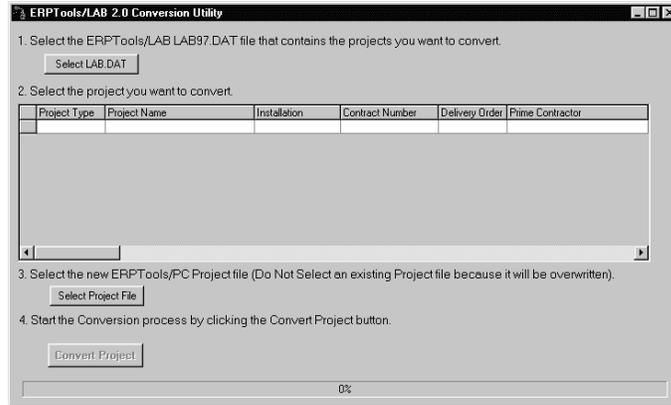


Figure 5-19 Lab Transfer Utility Main Form

Click the Select LAB.DAT button to open a browse window.



Figure 5-20 Lab Transfer Browse Window

Select the LAB97.DAT file to be converted and click the Open button. When the browse window closes the project selection grid on the main form will list the projects that are stored in the data file.

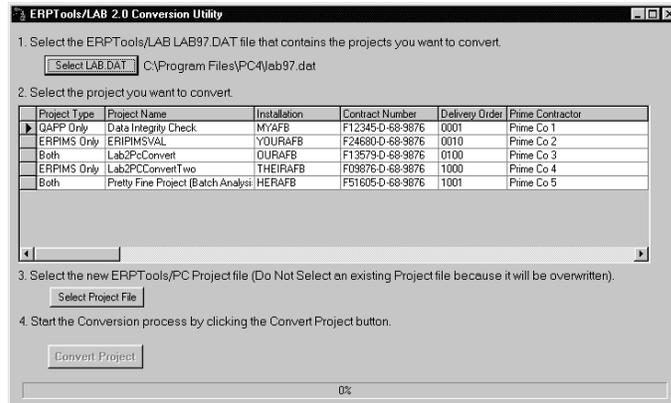


Figure 5-21 Lab Transfer With Projects Listed

Click a record selector to the left of the record of the project you wish to transfer. Click the Select Project File button. The Enter New Project File Name window will open.

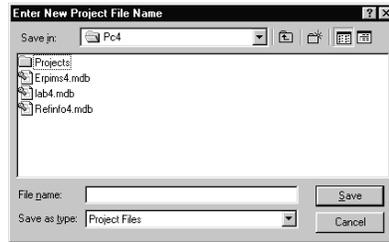


Figure 5-22 Lab Transfer New Project Window

Navigate to the directory where the new file will be stored, then enter a name for the new project file. Click Save to create the project and close the window. On the Main screen click the “Convert Project” button. The status bars will update as the conversion is run.

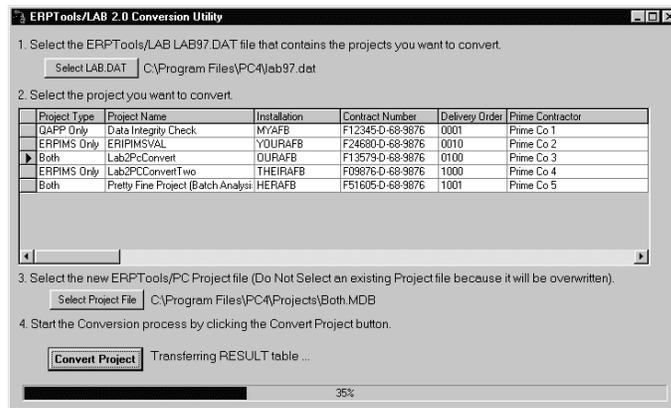


Figure 5-23 Lab Transfer During File Updating

When the transfer and conversion are complete a message will open. Click OK to close it. You can then close Lab Transfer Utility or select another project for transfer.

Note: Due to index changes, it is possible some of the local methods stored in the LAB97.DAT file will be duplicates in the new ERPTools/PC 4.0 project. If this happens, a message box will inform the user of this situation and the duplicate records will be stored into a file named LAB97.DUP.

6. USING ERPTOOLS/PC

This section will show you how to do very specific tasks in ERPTools/PC, from logging on to creating a submission. Section 7, Techniques discusses how to use some of the components within ERPTools/PC.

6.1 COMMON TECHNIQUES

Refer to section 7, Techniques if you are new to ERPTools/PC or Microsoft Windows™. It will show you how to use the common elements of ERPTools/PC. This also includes some editing features such as creating and saving a new record, deleting a record, cut, copy, and paste, etc. Section 8, Menus and Toolbars describes each menu and toolbar button.

6.2 LOGGING IN

To log in to ERPTools/PC first double-click the program icon to open the program. The Login screen will open.



Figure 6-1 Login Screen

Enter your user name and password in the fields provided and click the Login button. The ERPTools/PC Main screen will open with your user name in the title bar.

Note: ERPTools/PC installs with a default user of ADMIN and a default password of PASSWORD. You should create a new administrative user or change the ADMIN user's password at the first opportunity.

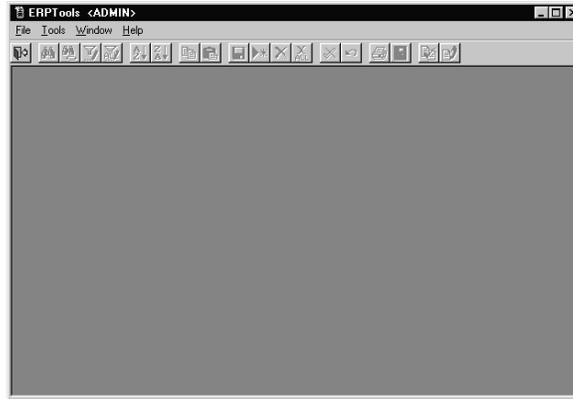


Figure 6-2 Main Screen

If you fail to enter a user name or password, or if one of them is invalid, a warning will open telling you what the error was.



Figure 6-3 Login Warning

Click OK to close the warning, and reenter the appropriate value. If you fail to login after three tries ERPTools/PC will close.

Clicking the Cancel button on the Login screen will close the program.

Note: Only Admin users can look up user names within the program, and no one can look up passwords. If you forget your password an Admin user will have to delete and re-create your user account, which will set your password back to “password.” Editing a user’s record will no longer change the password.

6.3 MAINTAINING USERS

6.3.1 Changing Passwords

All users are responsible for setting their own passwords. Passwords must have at least eight and no more than twenty characters, and may use a combination of letters, numbers and punctuation marks. They are not case sensitive.

Warning: If you leave your computer unobserved while running ERPTools/PC, an unauthorized user can change your password and prevent you from reopening the program.

Note: The password may not be left empty.

To set your password select the Tools→User Maint→Change Password option. The Change Password screen will open.



The image shows a dialog box titled "Change Password". It contains two text input fields: "New Password:" and "Confirm new password:". Below the fields are two buttons: "OK" and "Cancel".

Figure 6-4 Change Password Screen

Enter your new password in the New Password field, and again in the Confirm New Password field. Click OK to submit the new password.

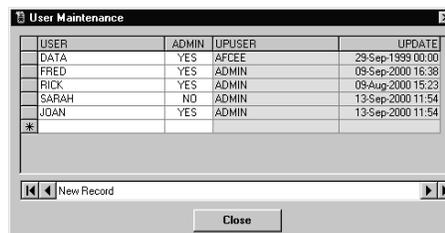
Clicking Cancel will cancel the action, leaving your existing password in place.

6.3.2 User Maintenance

Admin users only.

Admin users are responsible for adding, editing, and deleting user records, which contain the user name and the type of user, Admin or Data Entry.

To maintain user records select the Tools→User Maint→Edit User Accounts option. The User Maintenance screen will open.



The image shows a spreadsheet titled "User Maintenance". The spreadsheet has four columns: USER, ADMIN, LUPUSER, and UPDATE. The data rows are as follows:

USER	ADMIN	LUPUSER	UPDATE
DATA	YES	AFCEE	29-Sep-1999 00:00
FRED	YES	ADMIN	09-Sep-2000 16:38
RICK	YES	ADMIN	09-Aug-2000 15:23
SARAH	NO	ADMIN	13-Sep-2000 11:54
JOAN	YES	ADMIN	13-Sep-2000 11:54
*			

Below the spreadsheet is a toolbar with a "New Record" button and a "Close" button.

Figure 6-5 User Maintenance Screen

The User Maintenance screen has a spreadsheet listing all the registered users except the current user. Therefore, you cannot edit or delete the record of the user who opened the program.

Click the Close button to close the screen.

6.3.2.1 ADDING A USER

To add a user, click into the new record at the bottom of the spreadsheet (identified by the * in the row selector) or click the New Record button on the toolbar. Enter a user name in the USER field. If the user is an Admin user you must either type "YES" in the ADMIN field, or select the "Yes" option using the drop down list. If you leave the record without selecting the user type the ADMIN field will default to "NO."

ANMCODE	MATRX	PARLABEL	MDL	RL UNIT
A205	w	SC	120	40 UMH
A209A	w	TSD	50	20 MG/L
A209B	w	TDS	70	10 MG/L
A209C	w	SS	200	100 MG/L
A2320	w	ALK	150	60 MG/L
A2340B	w	HARD		
A2510B	w	SC		UMH
A2520B	w	SALINITY		
A2540C	w	TDS		MG/L
A2540D	w	SS		MG/L
A2540G	S	SOLID		PERI

Record 1 of 501

Figure 6-7 View VVL Data Screen

Use the horizontal and vertical scroll bars to review the information. Although you cannot select a record and edit it, clicking on the button at the left end of the row will highlight a record, and make it easier to follow it across the fields.

6.4.2 Editing Valid Values

Admin users only.

Admin users can edit VVL values. Select the Tools→VVL Maint→Edit VVL Data option. The VVL Tables screen will open. Select one or more tables and click the Select button or double-click on an individual table. An Edit VVL Data screen will open for each VVL table selected. Once the screen is open you can add, edit, and delete VVL values. The standard editing techniques are covered in Section 7, Techniques.

Note: You must contact the ERPIMS Help Desk before making any changes to the VVL tables. If you do not get approval for the change there is a good probability that your submission will be rejected by AFCEE.

ANMCODE	MATRX	PARLABEL	MDL	RL UNIT
A205	w	SC	120	40 UMH
A209A	w	TSD	50	20 MG/L
A209B	w	TDS	70	10 MG/L
A209C	w	SS	200	100 MG/L
A2320	w	ALK	150	60 MG/L
A2340B	w	HARD		
A2510B	w	SC		UMH
A2520B	w	SALINITY		
A2540C	w	TDS		MG/L
A2540D	w	SS		MG/L
A2540G	S	SOLID		PERI

Record 1 of 501

Figure 6-8 Edit VVL Data Screen

6.4.3 Importing Valid Values

Admin users only.

Select Tools→VVL Maint→Import VVL to import one or all AFCEE provided VVL files into a VVL table. You will see a message asking if you want to import all VVL files.

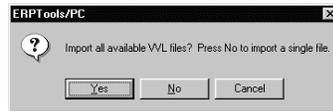


Figure 6-9 Import All VVLs Message

Select Yes to import all VVL files, No to import a single file, or Cancel to cancel the VVL import process.

6.4.3.1 IMPORTING ALL VVLS

If you select Yes (import all VVLs), you will see a VVL Import dialog.

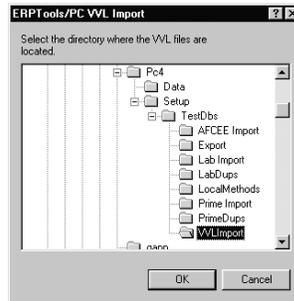


Figure 6-10 VVL Import Dialog

Use this dialog to select the directory where all the AFCEE provided VVL files are located. Click OK to start the import. The VVL Import screen will open.



Figure 6-11 VVL Import All Screen

The screen will indicate which file number it is processing (i.e. File 16 of 40), the file name it is processing, and the table name the data is importing into. A progress bar will show the progress of the import.

Note: Importing all VVL files is an extensive process and, depending on your PC, usually takes an hour or more.

You can click the Cancel button to halt the import. A warning will remind you that canceling will leave the table in an invalid state.

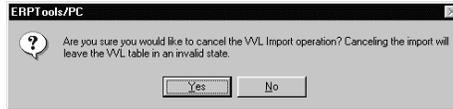


Figure 6-12 Cancel VVL Import Warning

6.4.3.2 IMPORTING A SINGLE VVL

If, on the Import VVL message, you select No (import a single VVL file), the Import VVL selection screen will open showing all VVL tables.

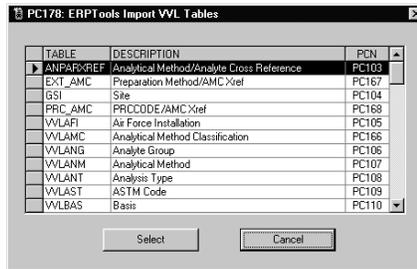


Figure 6-13 Import VVL Selection Screen

Select the table you wish to import and click the Select button. The Import VVL Data selection screen will open.

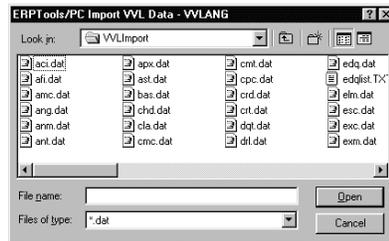


Figure 6-14 Import VVL Data Selection Screen

Use the selection screen that appears to select the individual file to import. The file names of the files provided by AFCEE are formatted in a very specific way and should not be changed or the data may be imported into the wrong table. Click Open to start the import. The VVL Import screen will open.



Figure 6-15 VVL Import One Screen

For a single VVL import the screen will indicate which table is being imported. A progress bar will show the progress of the import.

You can click the Cancel button to halt the import. A warning will remind you that canceling will leave the table in an invalid state.

When the import process is completed the VVL Completion message will be displayed.



Figure 6-16 VVL Completion Message

6.4.4 Creating a VVL Listing

Select Tools → VVL Maint → Create VVL List to create a listing of the selected VVL tables. The Create VVL List selection screen will open.

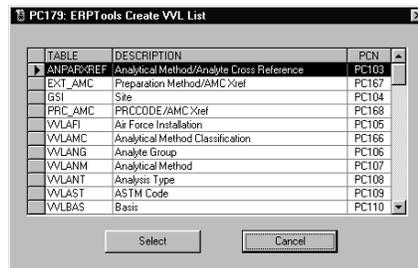


Figure 6-17 Create VVL List Selection Screen

Select one or more tables and click the Select button or double-click on the table. If you select a table with site specific values a message will open asking if you want to first open a project, or list all the table values.

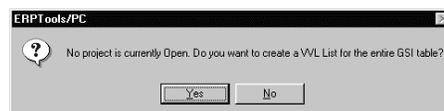


Figure 6-18 VVL No Project Open Warning

Either click Yes to proceed, or click No to halt the process so you can open a project, then select a table. If you have selected multiple tables, ERPTools/PC will loop through each selected table displaying the Create VVL List dialog screen. If you cancel out of the file selection screen, a message is displayed giving you the option of continuing with the next file or cancelling the process.

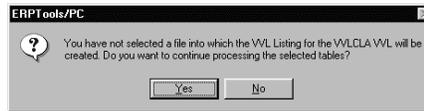


Figure 6-19 Select File Message

After each list is created you will be asked if you want to continue the listing process.

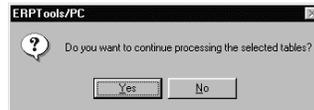


Figure 6-20 Continue Processing Tables Message

Click Yes to continue and No to abort the process.

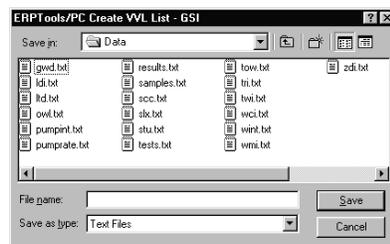


Figure 6-21 Create VVL List Dialog

Enter a filename for the VVL Listing and select the directory where it will be stored. Click the Save button to save this file. A message will open confirming the file creation.



Figure 6-22 VVL List Creation Message

This listing is a text file formatted with the VVL Name and Description at the beginning of the file and then all the values in the VVL listed below the VVL Name. This file can then be brought into any text editor or word processor to print or review. It cannot be re-imported into ERPTools/PC.

6.5 CREATING AND MANAGING PROJECTS

6.5.1 Opening a Project

This option is unavailable if a project is open.

All users can open a project by selecting the File→Open Project option. The Project Open file dialog screen will open.

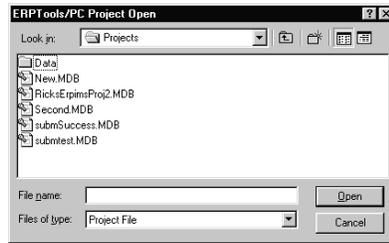


Figure 6-23 Project Open Dialog

Note: ERPIMS4.MDB, LAB4.MDB, and REFINFO4.MDB are program files, not projects. Trying to open one of them results in an error message.

Select a project and click the Open button. The Open ERPTools Project Information screen will open.



Figure 6-24 Open Project Screen

Confirm that you have selected the correct project and click the Open button. When the project opens the project information will display on the window's Application bar.



Figure 6-25 Application Bar Project Information

The information includes the username, project file name, project name, AFIID and contract number-delivery number. If the project is a Lab project some of the elements may display an <UNK> if the data was not entered when the project was created. The Data menu also appears, allowing you to complete project tasks including data import, export, submission, and editing.

You can also open a project by selecting it on the File menu's list of recently opened projects.

6.5.2 Creating a Project

Admin users only. This option is unavailable if a project is open.

Select the File→Create Project option. The ERPTools/PC Project Create dialog will open.

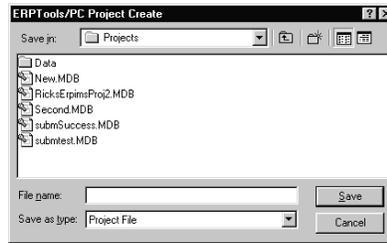


Figure 6-26 ERPTools/PC Project Create File Dialog

Enter a file name for the project and select the directory where it will be stored. The Create ERPTools Project Information screen will open.

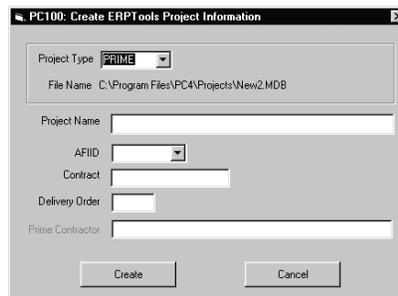


Figure 6-27 Create ERPTools Project Information Screen

Using the Project Type drop down list designate whether the project is a Prime or Lab project.

6.5.2.1 PRIME PROJECT

You must enter or select values for the Project Name, AFIID, Contract, and Delivery Order fields, and click the Create button. The Prime Contractor field will be unavailable. The project will open, and display project information in the title bar.

6.5.2.2 LAB PROJECT

Enter the project name in the Project Name field. You are not required to enter values in the other fields but it is recommended to fill in the AFIID field if it is known. In a Lab project the Prime Contractor field is available. Click Create to open the project and display project information in the title bar.

6.5.3 Editing Project Information

Admin users only. This option is unavailable unless a project is open.

Warning: Do not edit any of this project information after the first submission file has been sent to AFCEE. Any subsequent submissions for that project will be returned.

To edit project information select the File→Edit Project option. The Edit ERPTools Project Information screen for that project will open. You can edit the information for only the currently open project.

PC101: Edit ERPTools Project Information

Project Type PRIME

File Name C:\Program Files\PC4\Projects\New.MDB

Project Name NEW PROJECT

AFID KNGSN KING SALMON AFS

Contract F12345-00-A-6789

Delivery Order 01

Prime Contractor

Edit Cancel

Figure 6-28 Edit ERPTools Project Information Screen

Edit the information in the fields that need changing. Click the Edit button to accept the changes and close the screen.

6.5.4 Closing a Project

This option is unavailable unless a project is open.

To close the open project select the File→Close Project option. All open screens will close, and the project information will be removed from the title bar.

Note: You must close one project before you can open another.

6.5.5 Deleting a Project

Admin users only. This option is unavailable if a project is open.

To delete a project, select the File→Delete Project option. A file dialog screen will open. Select the project to be deleted and click the Open button. The ERPTools/PC Project Delete screen will open, displaying project information for the project.

PC177: Delete ERPTools Project Information

Project Type PRIME

File Name C:\Program Files\PC4\Projects\Second.MDB

Project Name PRIME

AFID ACADM AIR FORCE ACADEMY

Contract A12345-00-B-6789

Delivery Order 1

Prime Contractor

Delete Cancel

Figure 6-29 Delete Project Confirmation Screen

Confirm that you have the correct project. Click the Delete button to delete the project. A warning will open asking you to confirm the deletion. Click the Yes button to delete the project. A message box will open saying that the project has been deleted.

Warning: Deleting a project deletes the physical database file (*.mdb) from the drive and this file IS NOT placed in the Recycle Bin. Therefore deleting a project cannot be undone and all data is lost.

Click the Cancel button to close the screen without deleting the project.

6.6 USING LOCAL METHODS

Admin users only. This option is unavailable unless a project is loaded.

Admin users can create, edit, delete, import, and export local methods. When the user saves a new Local Method record, ERPTools/PC creates default analytes from the official methods that are stored in the ANPARXREF table if they exist. If no analytes exist in ANPARXREF there will be no analytes inserted for this local method. The user can then go to the analytes grid and modify or add analytes to account for local practices.

6.6.1 Importing Local Methods

To import a text file of local methods select the Tools→Local Methods Maint→Import Local Methods option. A file dialog screen will open.

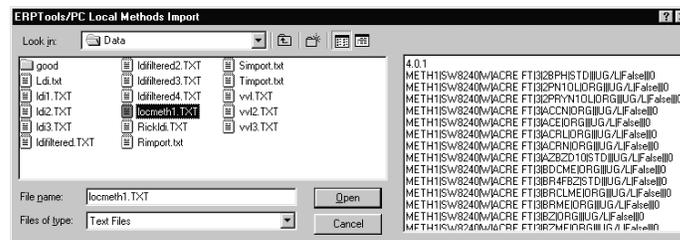


Figure 6-30 Local Methods Import File Dialog

Select the text file to import. A preview of the file will be displayed in the field on the right side of the screen. Clicking Open will begin the import process. If you click Cancel the import process is cancelled.

6.6.2 Creating/Editing Local Methods

Select the Tools→Local Methods Maint→Edit Local Methods to edit the project's local methods. The Edit Local Methods screen will open.

The screenshot shows a software window titled "Edit Local Methods". It contains two data tables. The first table, "Local Methods", has columns: METHOD_NAME, ANMCODE, MATRIXTYPE, UNITS, PRECISION, UPUSER, and UPDATE. It lists two records: METH1 and METH2. The second table, "Analytes", has columns: PARLABEL, PRCCODE, SURROGATE, MDL, RL UNITS, and RPD. It lists several analytes including 2BPH, 2PNTOL, 2PRYNTOL, ACCN, ACE, and ACRL. Navigation buttons for records and details are visible at the bottom of each table.

Local Methods						
METHOD_NAME	ANMCODE	MATRIXTYPE	UNITS	PRECISION	UPUSER	UPDATE
METH1	Sw8240	W	ACRE FT	3	ADMIN	28-Aug-2000 14:35
METH2	Sw8240	S	FT3	1	ADMIN	28-Aug-2000 14:34
*						

Analytes					
PARLABEL	PRCCODE	SURROGATE	MDL	RL UNITS	RPD
2BPH	STD	NO		UG/L	
2PNTOL	ORG	NO		UG/L	
2PRYNTOL	ORG	NO		UG/L	
ACCN	ORG	NO		UG/L	
ACE	ORG	NO		UG/L	
ACRL	ORG	NO		UG/L	

Figure 6-31 Edit Local Methods Screen

6.6.2.1 CREATING LOCAL METHODS

Select the new record in the Local Methods worksheet identified by the * in the record selector button on the left of the worksheet. You can also use the Add New Record toolbar button. Type in a name for the method, then select values for the remaining fields with the drop down lists. When you save the record ERPTools/PC will create default analytes from the official methods in the ANPARXREF table if there are matching records with the same ANMCODE/MATRIX combination as the new Local Method.

You can then go to the Analytes worksheet and edit the analyte records to conform to local methods. There are several new fields in the Analytes section (RPD, UPPER_ACCURACY, and LOWER_ACCURACY) which were added in this version. If an analyte should be treated as a Surrogate and its PRCCODE is not STD then you must change the Surrogate column from NO to YES.

6.6.2.2 EDITING LOCAL METHODS

To edit a local method select the method's record in the Local Methods worksheet. The method's analytes will display in the Analyte worksheet. Select the cell containing the value you want to change, either in the Local Methods or Analytes worksheet, and edit it. The new value will be saved when you exit the record. The options of sorting, copying, and pasting are also available. The standard editing techniques are covered in Section 7, Techniques.

6.6.2.3 DELETING LOCAL METHODS

To delete one or some local methods or analytes select the row or rows to be deleted in either worksheet and click the Delete Selected Records button. A warning will open asking if you want to delete the number of records selected.



Figure 6-32 Record Deletion Warning

Click Yes to delete the records.

Note: You can only select records from one worksheet at a time. Deleting a local method deletes all the analytes associated with that method.

To delete all records click the Delete All Records button. The Delete All Records warning will open.



Figure 6-33 Delete All Warning

Click the Yes button to delete all the records. A message will confirm that the records have been deleted.

6.6.3 Exporting Local Methods

To export local methods select the Tools→Local Methods Maint→Export Local Methods option. The Local Methods Export file dialog screen will open.

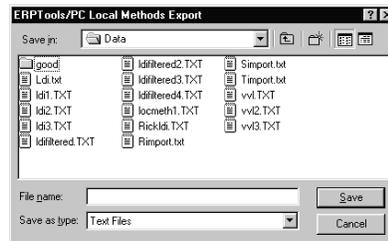


Figure 6-34 Local Methods Export File Dialog Screen

Navigate to the directory where you want to store the file, type a file name in the File Name field, and click the Save button. A message will tell you when the export is complete.

6.7 LOADING AFCEE SUPPLIED DATA

Admin users only. Prime Project Only. This option is unavailable unless a project is loaded.

Note: If at all possible AFCEE supplied LDI, SLX, OU, RSI, RTI, WMI, WCI, and WINT information for the AFID should already be loaded before doing any importing or data entry of user generated data. If you need the AFCEE supplied data files, contact the AFCEE Help Desk.

To import AFCEE supplied data for a project select the Data→Load AFCEE Supplied Data option. A message box will indicate that AFCEE data is used for reference only.

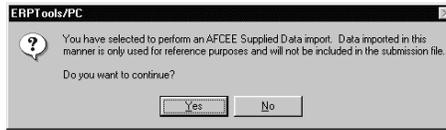


Figure 6-35 AFCEE Reference Message

Click Yes to continue. The Load AFCEE Supplied Data selection screen opens, allowing you to select one or more tables you want to load with AFCEE Supplied Data.

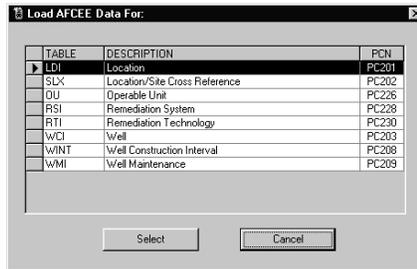


Figure 6-36 Load AFCEE Data Selection Screen

Select tables and click the Select button or double-click on the table name. The Import AFCEE Data File dialog will open.

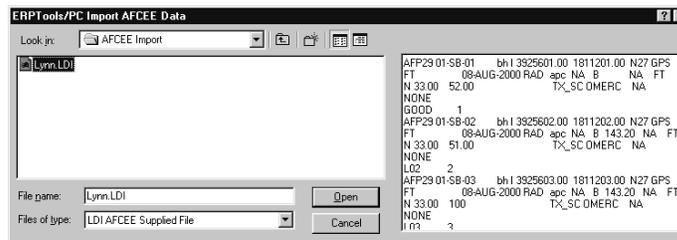


Figure 6-37 Import AFCEE Data File Dialog

Use the file dialog screen to select the AFCEE supplied file. Once you select a file, a preview of its contents will be displayed on the right side of the screen. Click Open, and the Import Data dialog will open.

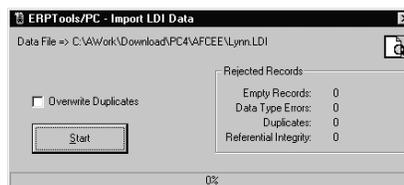


Figure 6-38 Import Data Dialog

If you have selected multiple tables, ERPTools/PC will loop through each selected table displaying the Import AFCEE Data file dialog. If you cancel out of the file selection screen, a message is displayed giving you the option of continuing with the next file or canceling the process.

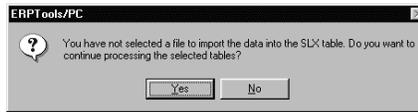


Figure 6-39 Cancelled Table Import Message

After each AFCEE Supplied file is loaded you will be asked if you want to continue the AFCEE Load process.

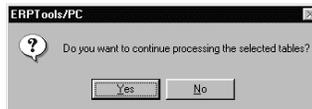


Figure 6-40 Continue Processing Tables Message

Click Yes to continue and No to abort the process.

6.7.1 Overwriting Duplicates

Select whether you want to over-write duplicates or not.

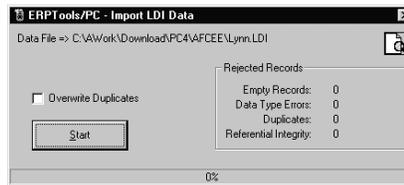


Figure 6-41 Import Data Dialog

Note: Selecting to over-write duplicates can have a significant impact on your current data.

When over-write duplicates is selected, ERPTools/PC will over-write ANY duplicate record with AFCEE data and flag that record as an AFCEE record. This may have the effect of converting some of your own user entered data into AFCEE data simply because the key fields of the two records matched and you had over-write duplicates selected. The old (over-written) data is not stored anywhere and is not recoverable unless an export or a backup was made before doing the import.

If you do not select the over-write duplicates option and duplicate records are found during the AFCEE Supplied Data load, only AFCEE records are updated. Records you have edited will not be overwritten. In the unlikely event that over-writing a duplicate causes a duplicate error in a secondary index, the record will be rejected and placed in the *.DUP file.

To start the import, click the Start button. The progress bar will update, and the dialog will tell you what records are being updated. When import is complete, the Import Data dialog will list the records rejected in the Rejected Records area, and tell you how many records were imported.

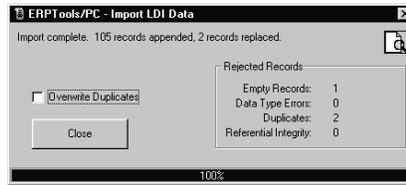


Figure 6-42 Import Data Dialog Completed

Click Close to close the dialog.

6.8 IMPORTING DATA

This option is unavailable unless a project is loaded.

Note: See the **What's New** section for changes in how Imports are done.

To import data for a project select the Data→Import Data option. The Import Tables screen will open.

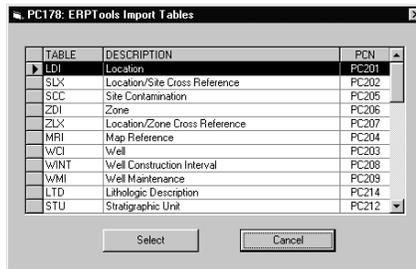


Figure 6-43 Import Tables Screen

Select one or more tables to import data for and click the Select button or double-click on the table name. A file dialog screen will open allowing you to select the file you want to import.

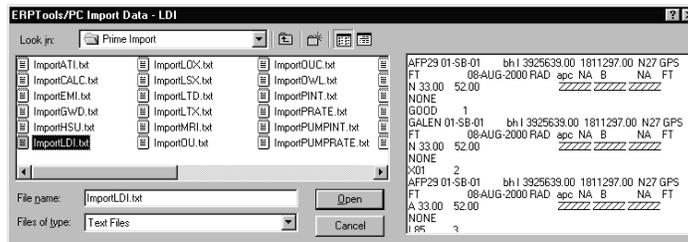


Figure 6-44 Import Data File Dialog Screen

When you select a file its contents will be previewed on the right side of the screen. Click the Open button to begin the import. The Import Table Data screen will open.

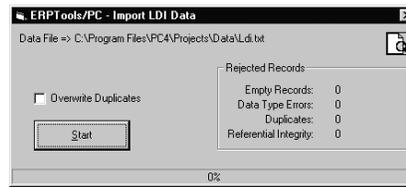


Figure 6-45 Import Table Data Screen

If you have selected multiple tables, ERPTools/PC will loop through each selected table displaying the Import Data file dialog. If you cancel out of the file selection screen, a message is displayed giving you the option of continuing with the next file or canceling the process.



Figure 6-46 Cancelled Table Import Message

After each file is imported you will be asked if you want to continue the import process.

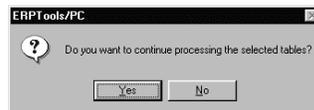


Figure 6-47 Continue Processing Tables Message

Click Yes to continue and No to abort the process.

Click to select the Overwrite Duplicates check box if you want duplicate records in the imported data to take the place of records in the current table. A record will be considered a duplicate if the key fields in the imported record match key fields in an existing record. If you select this option a warning will open.

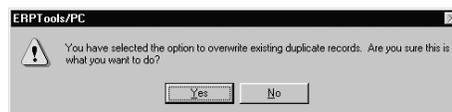


Figure 6-48 Overwrite Records Warning

Click Yes to continue and overwrite the records. If you choose to overwrite duplicate records the application overwrites the non-key fields of the existing database record. A DUPOVR message will be written in the log file for each record that is overwritten in this manner.

Click No to return to the default of rejecting duplicate records. If you choose to reject duplicate records ERPTools/PC writes a DUPREC message to the log and the rejected record to the *.DUP file.

Click the Start button to begin importing. The screen will update a status bar showing the import progress, and the Rejected Records area will summarize the types of errors.

Clicking the cancel button in the middle of an import will stop the import after the current record finishes processing. A message indicating that the import was cancelled will be included in the log file.

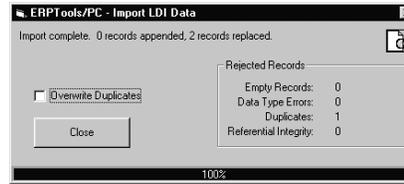


Figure 6-49 Import Data Screen, Import Complete

When the import is complete the screen will display the number of records appended and overwritten. Click the Close button to close the screen.

6.8.1 Import Log File

During the import process ERPTools PC writes a log file that details the results of the import process. This log file is located in the same directory as the import data file and uses the same filename as the import file but has a .LOG extension. The *.DUP, *.ERR, and *.REF files are the same way. Refer to the table below for an example.

File Type	File Name
Import File	C:\Work\BrooksLdi.TXT
Log File (*.LOG)	C:\Work\BrooksLdi.LOG
Error File (*.ERR)	C:\Work\BrooksLdi.ERR
Duplicates File (*.DUP)	C:\Work\BrooksLdi.DUP
Referential Integrity File (*.REF)	C:\Work\BrooksLdi.REF

Figure 6-50 Import File Extensions

If data conversion errors are detected, the application writes the relevant error information to the log file and the rejected record is written to the *.ERR file. If referential integrity errors are found, the application writes a REFINT message to the log file and the rejected record is written to the *.REF file.

The LOG file may also show several other error messages. These messages are:

- UNK: Unknown error – Usually a database constraint error and the actual error generated is reported.
- CRDDUP LDI table only – the coordinates in this record duplicate existing coordinates.
- DUPIDX This record is a duplicate because of a secondary index on the table. This is similar to the CRDDUP error.
- Any specific errors for specific fields such as invalid date and time, wrong data type, etc.

6.9 EXPORTING DATA

This option is unavailable unless a project is loaded.

To export all the data in a project table select the Data→Export Data menu option. The Export Tables screen will open.

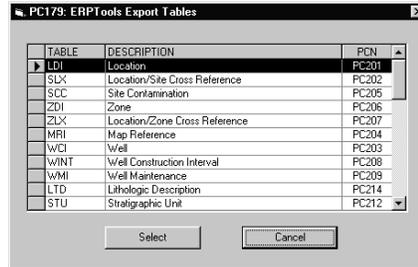


Figure 6-51 Export Tables Screen

Select one or more tables to export and click the Select button. The Export Data file dialog screen will open.

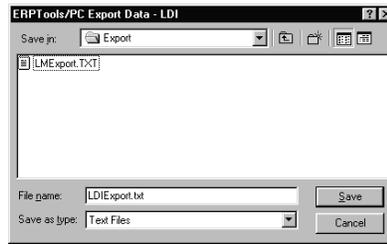


Figure 6-52 Export Data File Dialog

Navigate to the directory where you want to store the file, enter a file name for the export, and click the Save button. The Export dialog will open.

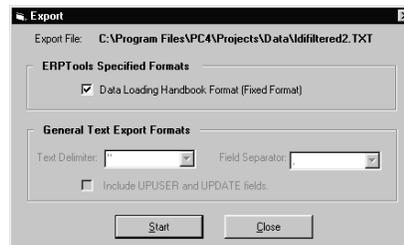


Figure 6-53 Export Dialog

If you have selected multiple tables, ERPTools/PC will loop through each selected table displaying the Export Data file dialog. If you cancel out of the file selection screen, a message is displayed giving you the option of continuing with the next file or canceling the process.



Figure 6-54 Cancel Table Import Message

After each table is exported you will be asked if you want to continue the export process.

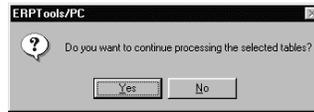


Figure 6-55 Continue Processing Tables Message

Click Yes to continue and No to abort the process.

If you want to export the data in the ERPTools Data Loading Handbook format, leave the check box for that option selected. Data in this format can be imported into another project. If you want a general text import format click the Data Loading Handbook check box to unselect it. This will enable the fields in the General Text Import Format area. Select characters to act as text delimiters and field separators. Select the checkbox if you want to include the UPUSER and UPDATE fields. Click the Start button to begin the export. When the export is complete a message will appear. Click OK to close it.

Project records can also be exported from data entry and error editor screens. This allows you to export only a subset of data. To export from the data entry or error editor screens click on the Export Current View toolbar button.

6.10 CREATING AND USING DEFAULT DATA

This option is unavailable unless a project is loaded.

Default Data is used to help facilitate data entry. You can prefill common values for four tables (LDI, WCI, SAMPLE, and TEST) and then when you want to use these values you can enable the Data→Use Default Data menu option. When this menu item has a check mark next to it, any new records, in the tables listed above, will fill with these default data values. The values will be entered in the fields of a new record as soon as you start typing in any field.

You must first setup the default data and then enable or disable the Use Default Data menu item.

6.10.1 Setting Default Data Values

To create default data select the Data→Setup Default Data option, and the Default Data Setup Screen will open.

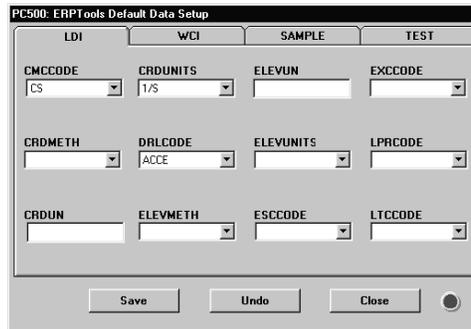


Figure 6-56 Default Data Setup Screen

The Default Data Setup screen is a dialog screen with four tabs, containing fields for LDI, WCI, SAMPLE, and TEST. In Prime projects the following fields are available, while in Lab projects only the Sample and Rest tabs are active. In a Lab project, SMCODE does not appear on the Sample tab.

Prime Projects Only		Prime and Lab Projects	
LDI	WCI	SAMPLE	TEST
CMCCODE	GZCCODE	LOGCODE	ANMCODE
CRDUNITS	WDPROC	SMCODE*	LABCODE
ELEVUN	SAQCODE		EXMCODE
EXCCODE	WELCODE		LCHMETH
CRDMETH	WCMCODE		
DRLCODE	WTCCODE		
ELEVUNITS		* This field is only available to Prime projects	
LPRCODE			
CRDUN			
ELEVMETHOD			
ESCCODE			
LTCCODE			

Figure 6-57 Default Data Fields by Table Tab

You can enter a specific value for each field, or choose from a drop down list if the field is validated against a VVL.

The Unsaved Values warning is in the lower right corner of the screen. When it is green, there are no unsaved values. When the warning is red, at least one of the values on the screen is unsaved.

Click the Save button to save the default values entered so far. Clicking the Undo button returns the values to those present when the last save occurred. Clicking the Close button closes the screen without saving. If you close the screen with unsaved values, the Unsaved Changes warning will open.



Figure 6-58 Unsaved Changes Warning

Click Ok to save the changes and continue closing. Click Cancel to return to the Default Data Setup screen for more editing.

6.10.2 Turning Default Data On and Off

Once default data is entered into the Default Data Setup screen it is available, and you may choose whether or not to use it.

The Use Default Data Values option is only active if the Data→Use Default Data option is checked. Select the option to check or uncheck it.

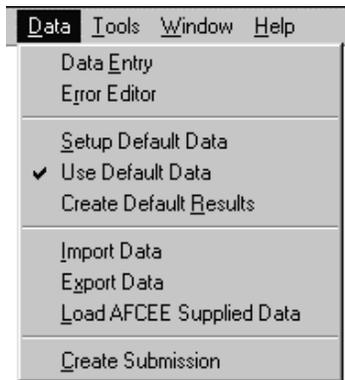


Figure 6-59 Default Data Checked

6.11 PERFORMING DATA ENTRY

This option is unavailable unless a project is loaded.

To enter data select Data→Data Entry. A Project Tables screen will open.

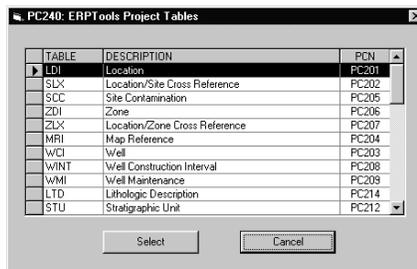


Figure 6-60 Project Tables Screen

Select one or more tables to be edited and click the Select button or double-click on the table name. A Data Entry screen will open for each Data Table selected.

RECNO	LOCID	LTCCODE	LPRCODE	NCOORD	ECOORD
254	1	WT	I	7	7
255	22	WT	I	7	
256	AAA	WIL	I	3	
211	AAAA	AV	N	2	
260	AAAA1	AV	N	223	
251	AAAA2	AV	N	34321	
253	AAAA3	AV	N	34211	
228	AAAAASD	AV	N	34	
230	AAAAASDS	AV	N	234	
227	AAAADDD	AV	N	342	
257	ABC	WT	I	9999999	9999999

Figure 6-61 Typical Data Entry Screen

The standard editing techniques are covered in Section 7, Techniques. This section will cover many of the specific features that you will use while doing data entry.

6.11.1 General Data Entry Notes

- If you attempt to enter data that does not match the data type of the field, exceeds the field length, causes referential integrity errors, or violates index restrictions an error message is displayed. Read the error message and click OK to return to the field and make corrections.
- If you are creating or editing a new record and are unable to move off the record by either clicking or using the arrow keys, this indicates there is a problem with the record you are adding or changing. Click the Save Record toolbar button and an error message will be displayed. The usual cause for this type of error is missing key field information or key field information that does not match to any existing parent record.
- After you successfully save a record by clicking the Save button or by entering another record you cannot use the Undo button to reverse changes to the record. If you receive an error message, and the pencil icon remains on the record selector, you can still Undo.
- Any edits will change the VALSTATUS field of the edited record to NV and change the UPUSER and UPDATE fields.

6.11.2 How to Find and Replace

The Find option searches for records with data that matches the search criteria. The Replace option substitutes a new value for the one found.

6.11.2.1 HOW TO FIND VALUES

The Find Dialog box is used to search for values in a specific field. To find records containing a specific value, first select the column to be searched. You cannot search more than one column at a time. Then click the Find toolbar button. The Find dialog will open.

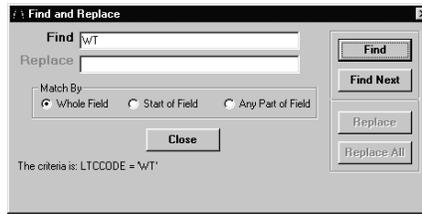


Figure 6-62 Find Dialog

Enter the search criteria in the Find box. If you want to find for a Null or Empty field, leave the Find box empty. In the Match By area select one of the radio buttons to indicate whether you want to match the whole field, the start of the field, or any part of a field. To start the search, click the Find button. The program will select the first record where the value appears, and the Find Next button will become active. Currently only the record selector will change to a right triangle on the row where the value was found but the actual cell will not be highlighted. The criteria for the search will be displayed below the Close button. Click the Find Next button to continue the search. After you have located all occurrences of the text in that column a message will appear telling you no more values match.

6.11.2.2 HOW TO REPLACE VALUES

The Replace Dialog box is the Find Dialog box, with the Replace field and buttons active. To replace values in a column first select the column to be searched. You cannot replace values in more than one column at a time. Then click the Replace toolbar button. The Find and Replace dialog will open.

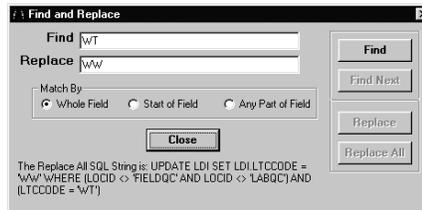


Figure 6-63 Replace Dialog Box

Enter the text to be searched for in the Find box. Enter the new text to replace it in the Replace box. If you want to replace a value with a Null or Empty string, leave the Replace box empty. In the Match By area select one of the radio buttons to indicate whether you want to match the whole field, the start of the field, or any part of a field. Clicking the Find button will select the first occurrence of the existing text, and the Find Next and Replace buttons will become active. The criteria for the search will be displayed below the Close button. Clicking the Replace button will replace the selected occurrence of the text and search for the next one. Continuing to click the Replace button continues the search and replace. The Replace All button replaces all occurrences of the text in the column. Clicking the Find Next button will look for the next occurrence of the value without replacing. After you have located all occurrences of the original text in that column a message will appear telling you no more

values match. If you use the Replace All a message will tell you how many records were edited and how long it took.

6.11.3 How to Filter and Sort Tables

Filtering and Sorting allow you to manipulate your data in such a way that makes it easier to work with. When you sort data you are ordering one or more columns in either ascending or descending order. This is the Standard Query Language (SQL) Order By clause. Filter allows you to limit the set of data you are working with, essentially building a SQL Where clause. Records in ERPTools/PC screens may be sorted and filtered to enable you to organize groups of records. Sorting puts all of the records in a set in order according to one or more of the record fields. Filtering selects those records in a set that match one or more specific criteria.

6.11.3.1 HOW TO SORT DATA

You can sort records one of two ways. The easiest and simplest way is to Quick Sort. See 6.11.4, How to Quick Sort.

If you need to do a more complex sort you will need to use the functionality found by selecting Edit→Filter menu option or clicking the Filter/Sort toolbar button. The Filter menu command or toolbar button opens a Create Sort Dialog Box. You will also use this same menu or toolbar to get to the Filter functionality.

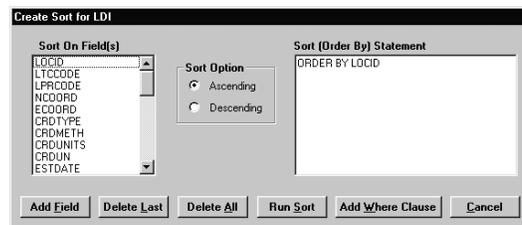


Figure 6-64 Create Sort Dialog Box

By default the current Sort (Order By) Statement will be displayed when you open the dialog. There are several tables that have system specified sorts that will always be added to any sort or filter you create and you may see these in the SQL Statement window. You will see a list of fields/columns present in the data entry screen, an option group with an Ascending option and a Descending option, a SQL Statement area that will hold the Order By clause, and some command buttons on the bottom of the dialog box. The buttons are Add Field, Delete Last, Delete All, Run Sort, Add Where Clause, and Cancel.

Select the first field you want to add to the Order By clause by double-clicking on the field or clicking once and clicking on the Add Field button. Continue doing this until all the fields you want to use are added. If you want to change the sort order from Ascending (default) to Descending, click the Descending option before selecting the field. Don't forget to set it back for the next field. If you make a mistake you can click the Delete Last button. This will remove the last field added to the Order By clause. You can continue to click the Delete Last button to move back through the set or Order By clauses or you can click the Delete All button to delete all the Order By clauses.

To apply the Order By clause click the Run Sort button. The dialog box will close and the data entry screen will reappear with the data sorted based on the new Order By clause and an orange FILTER flag will appear in the bottom right of the screen. You can right click on the FILTER flag and the current filter will be displayed in a message.

The Order By works by telling the datasheet to present the information sorted by the first column added to the clause, then the second column added to the clause, etc. For example:

Lab Sample ID:	Matrix:	Logging Date:	Logging Time:
D96-2694-01n	SEI	01-Jan-1996	1300
D96-2694-01o	SEI	01-Jan-1996	1200
D96-2694-01p	SEI	01-Jan-1996	1250
D96-2694-01z	zz	01-May-1997	1200
D96-2694-01a	SEI	01-May-1997	1210
D96-2694-01x	SEI	01-Jan-1996	1210

Figure 6-65 Data to be Sorted

Select the Logging Date and Logging Time field to sort by and the SQL Statement area will have the following statement in it: "ORDER BY LoggingDate ASC, LoggingTime ASC" Click the Run Sort button. The data will look like this:

Lab Sample ID:	Matrix:	Logging Date:	Logging Time:
D96-2694-01o	SEI	01-Jan-1996	1200
D96-2694-01x	SEI	01-Jan-1996	1210
D96-2694-01p	SEI	01-Jan-1996	1250
D96-2694-01n	SEI	01-Jan-1996	1300
D96-2694-01z	zz	01-May-1997	1200
D96-2694-01a	SEI	01-May-1997	1210

Figure 6-66 Sorted Data

6.11.3.2 HOW TO FILTER DATA

If you need to Filter your data, basically building a SQL Where clause, select the Edit→Filter menu option or click the Filter/Sort toolbar button. The Filter menu command or toolbar button opens a Create Sort Dialog Box. If you also need to sort the data build your sort using the techniques discussed in Section 6.11.3.1. To access the Create Filter screen click the Add Where Clause button. The Create Filter dialog will open.

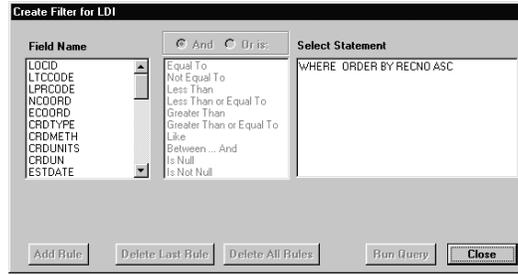


Figure 6-67 Create Filter Dialog

You will see a list of fields and columns present in the data entry screen, a list of equivalency options which define how the data will be limited, a SQL Statement area that will hold the Where clause, and a row of command buttons on the bottom of the dialog box. Unlike the Sort screen, you will not see the existing Where clause.

Select the first field you want to add to the Where clause by selecting the name in the Field Name list. The equivalency options will become enabled. Select the equivalency option you want. If you select the Between ... And equivalency option, a Between and an And field will be displayed.

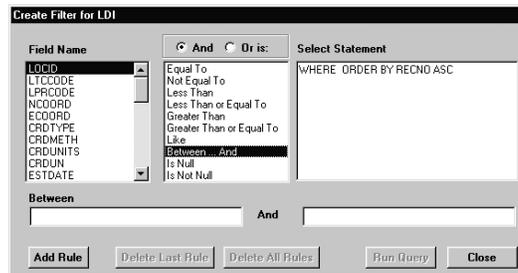


Figure 6-68 Create Filter Dialog With Between Option

If you select the Is Null or Is Not Null equivalency options, no comparison fields are displayed.

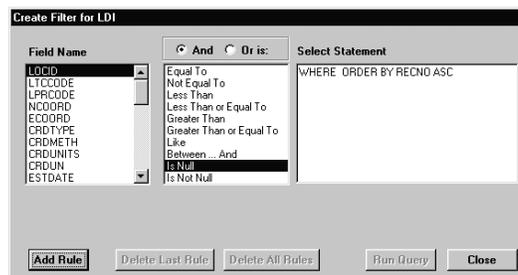
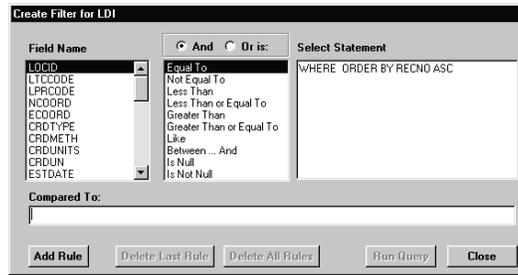


Figure 6-69 Create Filter Dialog With Null Option

For all other equivalency options a single Compared To: field becomes visible.



Create Filter Dialog With Equal Option

Enter the value that is appropriate and click on the Add Rule button. This adds the rule to the SQL Statement area.

To add a second or subsequent rule, click on the field list to select a field. An option group with an “And” selection and an “Or” selection appears above the equivalency option list. The default is set to “And” as in “Animal Equals ‘Dog’ AND Color Equals ‘Black’.” In an “And” statement both values must be true for the record to be retrieved. The “Or” statement will retrieve records when either one value OR the other value OR both are True.

To delete the last added rule click the Delete Last Rule button. To delete all the rules click the Delete All Rules button.

Click the Run Query button to apply the Where clause to the datasheet. The dialog box will close and the data entry screen will reappear with the data sorted based on the new Where clause and an orange FILTER flag will appear in the bottom right of the screen. You can right click on the FILTER flag and the current filter will be displayed in a message.

The following section explains each of the equivalency options available in the Equivalency Options list.

Equivalency Option	Usage	Example
Equal To	The field selected MUST Equal the value entered in the Compared To field.	LABSAMPID Equal To "1234abc" will retrieve records with a LABSAMPID of "123abc".
Not Equal To	The field selected MUST NOT Equal the value entered in the Compared To field.	LABSAMPID Not Equal To "1234abc" will retrieve records with a LABSAMPID other than "123abc".
Less Than	The field selected MUST be Less Than the value in the Compared To field.	SAMPLENUMBER Less Than 2 will retrieve records with a SAMPLENUMBER of 1 or lower.
Greater Than	The field selected MUST be Greater Than the value in the Compared To field.	SAMPLENUMBER Greater Than 2 will retrieve records with a SAMPLENUMBER of 3 or higher.
Less Than or Equal To	The field selected MUST be Less Than or Equal to the value in the Compared To field.	SAMPLENUMBER Less Than or Equal To 2 will retrieve records with a SAMPLENUMBER of 2 or lower.
Greater Than or Equal To	The field selected MUST be Greater Than or Equal to the value in the Compared To field.	SAMPLENUMBER Greater Than or Equal To 2 will retrieve records with a SAMPLENUMBER of 2 or higher.
Like	The field must match the pattern specified in the Compared To field. Wildcards can be used. Please refer to the Note after this table for a detailed explanation of Wildcards.	MATRIX Like "S*" will retrieve record with a MATRIX that starts with an "S".
Between ... And	The field must be between the TWO values specified in the Compared To field. The Between is inclusive of the two values. You must enter the word AND between the two values and put quotes around any text (non-numeric or date) value.	SAMPLENUMBER Between 4 AND 6 will retrieve records with a SAMPLENUMBER of 4, 5, and 6.
Null	The field selected in the Field list must be Null. No Compared To field will appear. Just press the Add Rule button after selecting the Null equivalency option.	MATRIX is Null will retrieve any records with a Null (Empty) Matrix.
Not Null	The field selected in the Field list cannot be Null. No Compared To field will appear. Just press the Add Rule button after selecting the Not Null equivalency option.	MATRIX is Not Null will retrieve any records with a Matrix value.

Figure 6-70 Add Limiting Criteria Equivalency Options

The following is quoted from Microsoft Access's Help File:

Using Wildcard Characters in String Comparisons

Built-in pattern matching provides a versatile tool for making string comparisons. The following table shows the wildcard characters you can use with the Like operator and the number of digits or strings they match.

Character(s) in pattern	Matches in expression
?	Any single character
*	Zero or more characters
#	Any single digit (0-9)
[charlist]	Any single character in charlist
[!charlist]	Any single character not in charlist

Figure 6-71 Wildcard Characters

A group of one or more characters (charlist) enclosed in brackets ([]) can be used to match any single character in expression and can include almost any characters in the ANSI character set, including digits. The special characters opening bracket ([), question mark (?), number sign (#), and asterisk (*) can be used to match themselves directly only if enclosed in brackets. The closing bracket (]) can't be used within a group to match itself, but it can be used outside a group as an individual character.

In addition to a simple list of characters enclosed in brackets, charlist can specify a range of characters by using a hyphen (-) to separate the upper and lower bounds of the range. For example, using [A-Z] in pattern results in a match if the corresponding character position in expression contains any of the uppercase letters in the range A through Z. Multiple ranges can be included within the brackets without any delimiting. For example, [a-zA-Z0-9] matches any alphanumeric character.

Other important rules for pattern matching include the following:

- An exclamation mark (!) at the beginning of charlist means that a match is made if any character except those in charlist are found in expression. When used outside brackets, the exclamation mark matches itself.
- The hyphen (-) can be used either at the beginning (after an exclamation mark if one is used) or at the end of charlist to match itself. In any other location, the hyphen is used to identify a range of ANSI characters.
- When a range of characters is specified, they must appear in ascending sort order (A-Z or 0-100). [A-Z] is a valid pattern, but [Z-A] is not.
- The character sequence [] is ignored; it is considered to be a zero-length string ("").
- The following table shows how you can use Like to test expressions for different patterns.

Kind of match	Pattern	Match (returns True)	No match (returns False)
Multiple characters	"a*a" "*ab*"	"aa", "aBa", "aBBBa" "abc", "AABB", "Xab"	"aBC" "aZb", "bac"
Special character	"a[*]a"	"a*a"	"aaa"
Multiple characters	"ab**"	"abcdefg", "abc"	"cab", "aab"
Single character	"a?a"	"aaa", "a3a", "aBa"	"aBBBa"
Single digit	"a#a"	"a0a", "a1a", "a2a"	"aaa", "a10a"
Range of characters	"[a-z]"	"f", "p", "j"	"2", "&"
Outside a range	"[!a-z]"	"g", "&", "%"	"b", "a"
Not a digit	"[!0-9]"	"A", "a", "&", "~"	"0", "1", "9"
Combined	"a[!b-m]#"	"An9", "az0", "a99"	"abc", "aj0"

Figure 6-72 Characters Used to Test Like Expressions

6.11.3.3 CLEARING A FILTER OR SORT

To remove the Sort or Order By clause select Edit→Show All or click the Show All Records toolbar button. All records will be displayed and the FILTER flag will disappear.

6.11.4 How to Quick Sort

Select a cell in the column in the table you want to sort by or select an entire column. Then select one of the Sort options on the Record→Quick Sort menu or click one of the Sort buttons on the toolbar. The Sort Ascending option arranges the records in a table according to values in the selected column, with the smallest value first. The Sort Descending option arranges the records in a table according to values in the selected column, with the largest value first.

Note: If you sort using this technique, the screen will not show the orange Filter warning.

6.11.5 How to Calculate Percent Recovery

This function is only available with a Lab project loaded and the RESULT Data Entry worksheet open.

Select the Edit→Calculate Percent Recovery option, and a message will open.

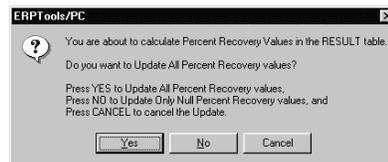


Figure 6-73 Calculate Percent Recovery Message

This option allows you to calculate the Percent Recovery field automatically. You can update all appropriate Percent Recovery fields or just those appropriate Percent Recoveries where the field is Null. The message asks if you want to update all Percent Recovery values. Click Yes

to update all records, No to update only records with Null in the Percent Recovery field, or Cancel to return to the Result table without making any changes.

6.11.6 How to Export Filtered and Sorted Records

To export a filtered or sorted version of a table, first open a Data Edit screen for a table and apply the filters and sorts desired. Then select the Edit → Export Current View option or click the Export Current View button. The Export Data File dialog screen will open.



Figure 6-74 Export Data Dialog

Navigate to the directory where the data is to be stored, then enter a file name in the File Name field. Click the Save button to create the file. The Export dialog will open.

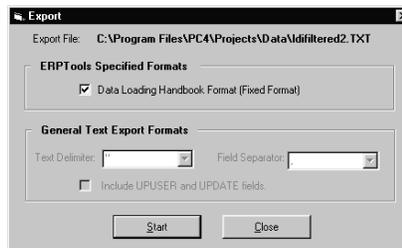


Figure 6-75 Export Dialog

The path and file name will be shown at the top of the screen. If you want to export the data in Data Loading Handbook format leave the ERPTools Specified Formats check box selected. To select a different format first click on the Specified Formats box to uncheck it. The General Text Export area will become active.

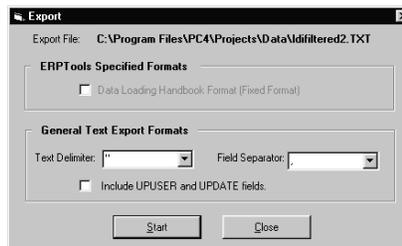


Figure 6-76 Export Dialog with General Area Active

Note: Data exported in General Text Export Formats cannot be imported into ERPTools/PC.

Select a Text Delimiter and Field Separator using the drop down lists, then select the check box if you want to include the Upuser and Update fields in the export. Click Start to begin the export. Once export is complete an Export Complete message will be displayed.

6.11.7 Printing or Previewing Records From The Data Entry Screen

ERPTools/PC now provides a rudimentary print/preview function to allow you to print the contents of a data entry screen. You can print or preview the entire table, a filtered set of data, or only selected records.

There is no provision in the printing process to limit the number of columns printed, so your output may be several pages wide. You can limit this effect by manually closing unnecessary columns before selecting Print Current View. See 7.4.4 How to Change Column Width.

Once you have determined what records you wish to print (by filtering or selecting) then select the File→Print Current View option or click the Print Current View button. The Page Setup dialog will open.

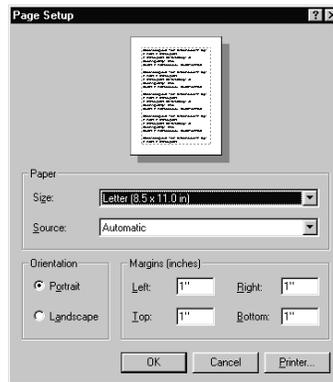


Figure 6-77 Page Setup Dialog

Select the desired printer and layout options. When you click OK the Preview message will open.



Figure 6-78 Print Preview Message

Click No to print the report directly to the printer. Click Yes to open a Print Preview of the report. If you have selected records the Selected Records message will open asking if you want to print all the records or only the selected records.

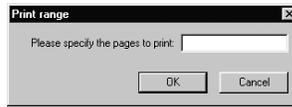


Figure 6-82 Print Range Dialog

Enter the pages you want to print. To select a range of pages enter the first and last page number with a hyphen between; for example 2-5. To select several individual pages enter page numbers separated by commas; for example 7,9,12. These techniques can be combined; for example; 2-5,7,9,12. Click OK to print.

To print one page, navigate to that page and select the File→Print Current Page option. The page will print from the selected printer.

6.12 CREATING DEFAULT RESULTS

This option is unavailable unless a project is loaded.

Once the Local Methods have been created you can create default results. These results can also be edited as needed after they are created.

To create default results select the Data→Create Default Results option. The Create Default Results screen will open.

Create Default Results						
HAS LMs?	TEST RECNO	ANMCODE	EXMCODE	LCHMETH	LABCODE	RUN_NUMB
Yes	2	SW4020	SW3510	NONE	ABB	
Yes	3	SW8240	SW3510	NONE	ABB	
Yes	5	SW8240	SW3510	NONE	ABB	
Yes	6	SW4020	A412	NONE	ABB	
No	7	A203	A412	NONE	ABB	
No	8	A2320	SW3510	NONE	ABB	
Yes	9	SW8240B	SW3510	NONE	ABB	

Figure 6-83 Create Default Results Screen

The screen will display test records that do not have any child results. The records are cross-referenced against the Local Methods table, and the HAS LMs? field designates which records have local methods. Select one or more of the records that have local methods and click the Create Results button. ERPTools/PC will create default result records based on the contents of the appropriate local method. A message will open telling you how many Test records had results added, and asking whether you want to see the inserted records.

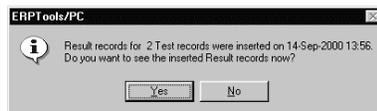
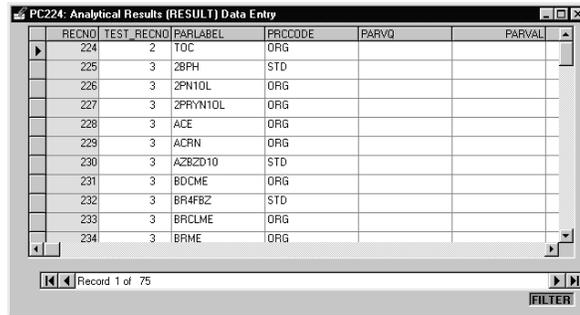


Figure 6-84 Default Results Message

Click Yes to open the Analytical Results (RESULT) data entry screen, with the records filtered so you can view the new records.



RECNO	TEST	RECNO	PARLABEL	PRCCODE	PARVQ	PARVAL
224	2	TOC	ORG			
225	3	28PH	STD			
226	3	2PNTOL	ORG			
227	3	2FRYNTOL	ORG			
228	3	ACE	ORG			
229	3	ACRN	ORG			
230	3	AZBZD10	STD			
231	3	BDCME	ORG			
232	3	BR4FBZ	STD			
233	3	BRCLME	ORG			
234	3	BRME	ORG			

Figure 6-85 Analytical Results Screen With New Results

Note: If no local method exists for a record the record cannot be selected, however you may be able to move the selected record marker to a No record if you click on it, even though the record is not actually selected. Records with local methods, which are selected, will remain selected.

If you click Create Results with no record selected a warning will open and the test record will remain on the list of records without default results.



Figure 6-86 Default Results Warning

Click Close to close the Create Default Results screen.

6.13 VALIDATING DATA

This option is unavailable unless a project is loaded and a worksheet open.

There are two levels of validation that will occur in the data entry screens. The first is Database Level validation and the second is Field and Record validation.

Before you can save a record the record must have all the appropriate key fields filled in and all the fields should be of the appropriate data type. ERPTools/PC will not let you leave a record that will fail a referential integrity constraint. If you are creating or editing a new record and are unable to move off the record by either clicking or using the arrow keys this indicates there is a problem with the record you are adding or changing. Click the Save Record toolbar button and an error message will be displayed. The usual cause for this error is missing key field information or key field information that does not match to any existing parent record

Field and Record validation is now done from the data entry screens. This means you can apply a filter to the data and the filtered set of data will be the only data validated. If the

system finds errors it writes them to the error table. If no errors exist, the record will be marked as validated.

To validate a set of data, first open a Data Edit screen for the table. If you want to validate part of the records, apply the filter desired. Then select the Edit→Validate Current View option or click the Validate Current View button. The program will begin validating the records shown on the datasheet, and will show the Validation progress bar. During the validation you can press the Cancel button to cancel the validation. When the validation process stops, either cancelled or completed normally, a record is written to the validation history table showing the table name, date/time, validation type, and the user name of the person performing the validation.



Figure 6-87 Validation Progress Bar

When validation is complete you will get one of two messages. If validation finds no errors the Validation Complete message will open.

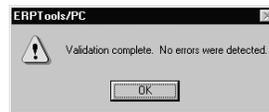


Figure 6-88 Validation Complete Message

If errors are found, the Validation Errors warning will open.



Figure 6-89 Validation Errors Message

The Errors message gives you the option of clicking the No button and simply closing the message, or clicking Yes to open the error editor screen and correct the records.

6.14 EDITING ERRORS

This option is unavailable unless a project is loaded.

The Edit Errors screen enables you to find and correct errors/warnings in data records. You can select the Data→Error Editor option or you may have been brought here directly after validating some records. If you use the menu option an Edit Errors Table list screen will open.

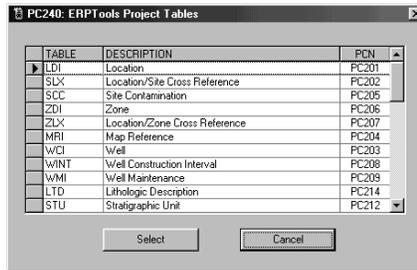


Figure 6-90 Tables List Screen

Select the table or tables with validation errors and click the Select button or double-click on the table name. An Error Editor screen will open for each Data Table selected. If you use the menu option and there are no errors then the following message will be displayed.



Figure 6-91 No Errors Detected Warning

If there are errors/warnings or you were brought here after validating data, the Error Editor screen opens.

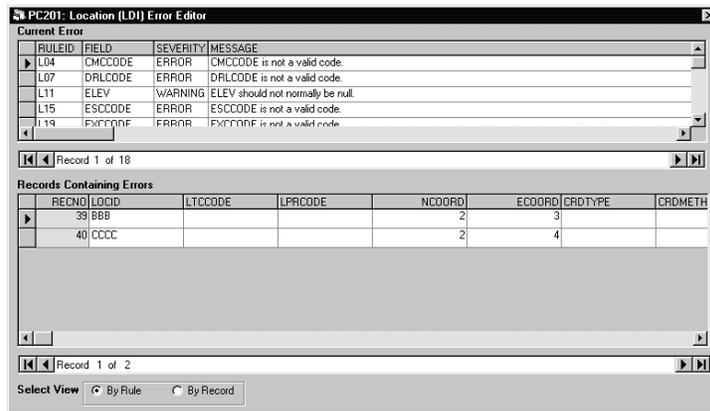


Figure 6-92 Error Editor Screen, by Rule

You can display errors in the Error Editor either By Rule or By Record. The By Rule option allows you to select a single error and all the records with that error will be displayed. Choosing the By Record option allows you to select a single record and have all the errors for that single record displayed.

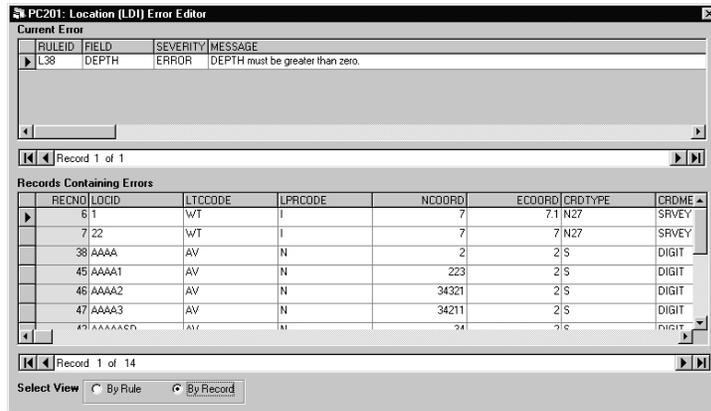


Figure 6-93 Error Editor Screen, by Record

The Records Containing Errors datasheet of the Error Editor contains many of the same editing functions as the typical data entry screen with the exception of applying a filter. Select a record in the Records Containing Errors worksheet, then refer to the Current Error datasheet to see what is incorrect, select the cell, and correct the data.

6.14.1 Printing an Error Report

Select File→Preview Error Report or click the Preview Error Report button to print an error report for offline analysis. An Error Editor report will open.

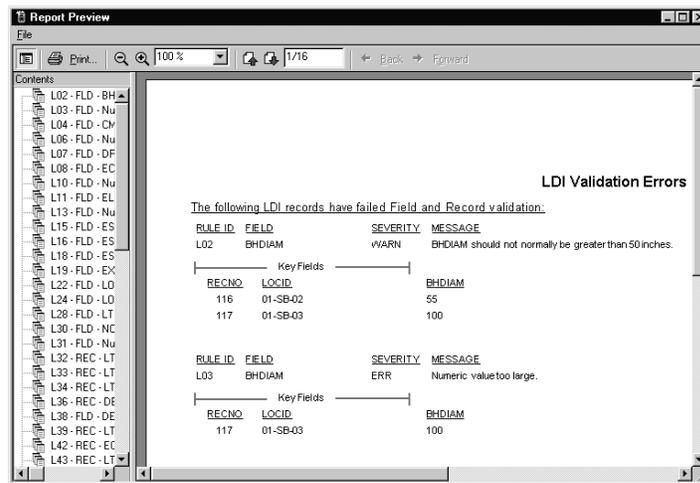


Figure 6-94 Error Editor Report Preview

Use the Report Preview toolbar to view the report. To print the report select the File→Print option or click the Print button. Use the File→Printer Setup option if you need to select a printer.

You can also click on the Table of Contents (TOC) button (first button on the left) and a TOC will be displayed. The TOC will display the RuleId and Message of each error in the report. If

you want to navigate to a specific error in the report click on the specific RuleId and the report will move to display the error in the middle of the screen. Unfortunately this feature is unavailable in the Submission reports because of a known bug in building a TOC in reports that contain sub-reports. This will be corrected as soon as the fix is received from the manufacturer of the reporting tool (estimated end of September 2000).

You can also save these reports in either PDF or RTF format. Click on the File→PDF Export or File→RTF Export options. A file dialog screen will be displayed. Select the location and enter the file name desired and then click the Save button. The report will be saved in the appropriate format.

6.15 SUBMISSIONS

Admin users only. This option is unavailable unless a project is open.

A submission is created to either pass data to AFCEE or to pass data to the Lab's Prime contractor. For a Prime submission, data is submitted to AFCEE in four submission files. Each submission file contains a group of data files. A Lab submission is done only for Group 3 and it excludes the EMI table.

Group	Document	Files Included
Group I	[project name].ZG1	LDI, SLX, SCC, ZDI, ZLX, MRI, WCI, WINT and WMI
Group II	[project name].ZG2	LTD, STU, HSU, CALC, GWD, ATI, PUMPRATE, TWI, OWL, TRI, TOW and PUMPINT
Group III	[project name].ZG3	SAMPLE, TEST, RESULT and EMI
Group IV	[project name].ZG4	OU, OUC, SOX, LOX, RSI, RSP, RSX, LSX, ROX, RTI, RTP and LTX
An Items of Interest report is generated with each submission file for a PRIME submission.		

Figure 6-95 ERPTools/PC Submission Files

Note: If you entered an Evaluation serial number of 99999 when you installed ERPTools/PC the program will not create submission records until you register it. To upgrade your installation of ERPTools/PC see Section 6.17.5.1.

6.15.1 Creating Submission Records

Note: All data MUST be valid before a submission file can be created.

To create a submission select the Data→Create Submission option. The Submission Generation Options dialog will open.

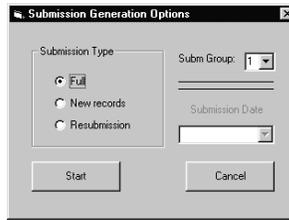


Figure 6-96 Submission Generation Options Screen

Select a submission type.

- Full submission validates and exports all records in the group.
- The New Records option only submits records that have not previously been submitted.
- Resubmission allows the preparation of a set of records previously submitted on a particular date.

Use the Submit group drop down list to select which group, 1 through 4, you want to prepare. If it is a Lab project Option 3 is chosen for you.

If you selected Resubmission as the submission type the Submission Date drop down list will be active. Select the original submission date of the records you want to resubmit. Click the Start button to begin the submission process. All the records that will be included in the submission are first re-validated using Field and Record validation rules.

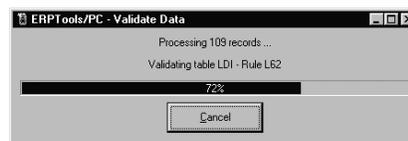


Figure 6-97 Revalidate Data Status Bar

If any of the records have not passed field and record validation an error message will open and the submission validation process will stop.



Figure 6-98 Submission Validation Warning

Click OK to close the error message, then use the Error Editor for each identified table to correct the Field and Record level validation errors. If only warnings are identified during the re-validation process then submission level validation will occur. When all the records are validated return to the submission process. If all records have been validated, ERPTools will begin the submission validation process. The Submission Validation progress bar will show you the progress.



Figure 6-99 Submission Validation Progress Bar

When the submission validation process is complete, if there are submission errors the Submission Errors report will open in a Report Preview screen.

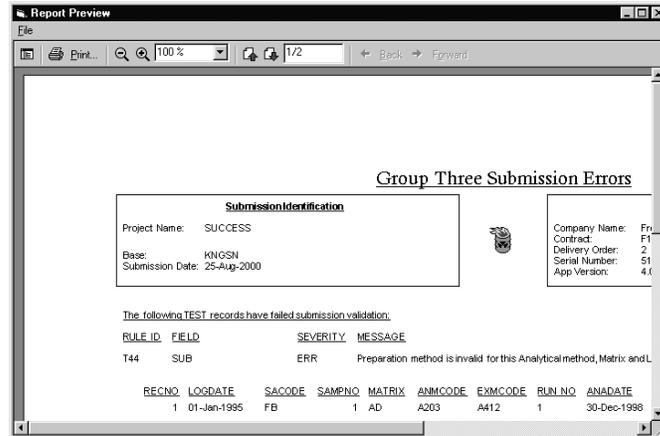


Figure 6-100 Submission Errors Report

Note: This is the only report that will appear in a LAB project. A LAB project will not generate an Items of Interest report or the VVL Changes report mentioned later.

After you review the Submission Errors report close it, and the Submission Complete message will open.



Figure 6-101 Submission Complete Message

Return to the Data Entry screen and make corrections and re-validate at the field and record level. Next return to the Submission process. If there are no submission errors the Items of Interest report will open.

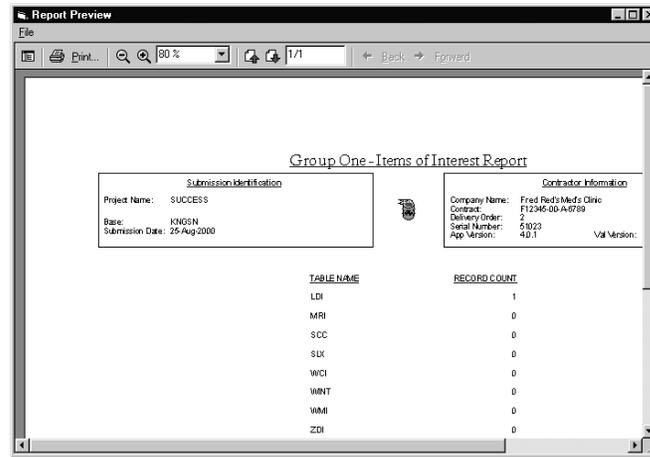


Figure 6-102 Items of Interest Report

Review the Items of Interest report. You are only required to send AFCEE a signed copy of the first page of the Items of Interest report as the entire report is now included in the submission file in PDF format. You can print the entire report if you need to for your own purposes. Upon closing the Items of Interest report, if there are new or changed VVL values then the VVL Changes report will open.

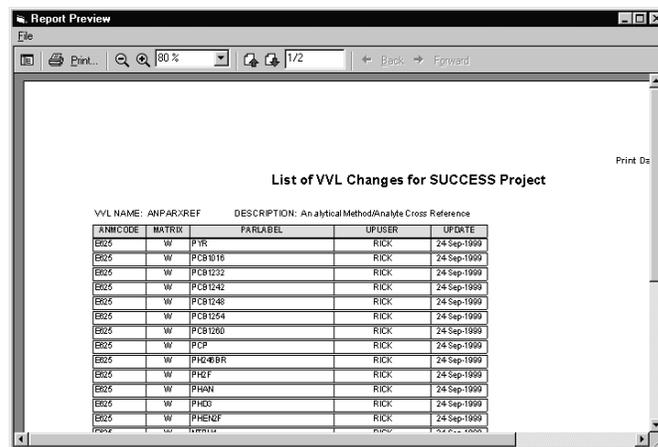


Figure 6-103 VVL Changes Report

Review and/or print the VVL Changes report and close it. This report is also included in the submission file in PDF format. After closing the report the Submission Complete message will open.

6.15.2 Making Submissions

The submission files will be created in the same directory as the project database, and may be transmitted to AFCEE from there. These files are preformatted and password protected, compressed files so they can be easily loaded on diskettes for submission to AFCEE.

6.15.2.1 PRIME PROJECT SUBMISSIONS

If at the end of submission validation there are no errors then ERPTools/PC will create one file for each group being submitted. The PC submission files use the following naming convention:

- [ProjectName].ZG[submission number] (for example BrooksProject.ZG1).

These files are compressed and ready to submit. In addition to the media containing the electronic copy of the file you need to include the signed first page of the Items of Interest Report for each group submitted. Send these items to AFCEE.

6.15.2.2 LAB PROJECT SUBMISSIONS

If at the end of submission validation there are no errors then ERPTools/PC will create 3 files, one for each group three table. The LAB submission files use the following naming convention:

- ProjectName_TableName.TXF (for example: BrooksLab_SAMPLE.TXF).

The only report a LAB project user will see during submission is an Error Report. If any errors exist ERPTools/PC will not create any submission files. Send these three files to your Prime contractor.

6.16 DISPLAYING SYSTEM STATISTICS

This option is unavailable unless a project is loaded.

To view reports about the open project open the Tools→View System Statistics menu and select the option desired. For Report Preview techniques see Section 7.6.

6.16.1 List Local Methods Report

Selecting the List Local Methods Report option opens the Local Methods Report screen. This report lists the contents of the local methods tables.

6.16.2 Change Local Methods Report

Selecting the Change Local Methods Report option opens the Change Methods Report screen. This report details the differences between the local methods and the ANPARXREF table.

6.16.3 Submission Status Report

Selecting the Submission Status Report option opens the Submission Status Report screen. This report details the number of records in each table according to validation status. The statuses include:

Designation	Validation Status
NV	Not validated
FR	Field and Record Validated
SV	Submission Validated

Figure 6-104 Validation Status Codes

6.16.4 Changed VVLs Report

Selecting the Changed VVLs Report option opens the Changed VVLs Report screen. This report details any changes made to the official AFCEE VVL lists.

6.16.5 Validation History Screen

Selecting the Validation History Screen option opens the Validation History screen. This screen displays validation history for the active project and allows the user to delete history records.

Select the Tools → View System Statistics → Validation History Screen option to open the Validation History data entry worksheet.

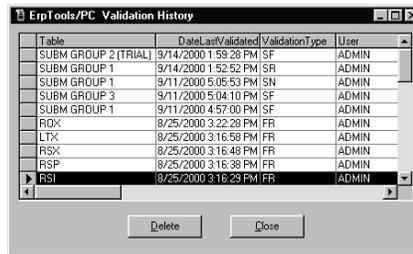


Figure 6-105 Validation History Screen

This screen will list all the validations performed on the project in chronological order. Submission Types seen in the Validation History Screen include:

Designation	Submission Type
FR	Field and Record Validation
SF	Full Submission
SN	New Record (Partial) Submission
SR	Resubmission

Figure 6-106 Submission Type Codes

The records on this worksheet are read-only, and may not be edited, but you can delete records. To delete a record, select the record and click the Delete button. A Delete Validation warning will open.

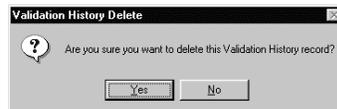


Figure 6-107 Delete Validation History Warning

Click Yes to delete the record, or No to close the warning without deleting the record.

6.17 ERPTOOLS/PC HELP

ERPTools/PC features an extensive online help system. The Help file may be accessed through the Help menu, or information about specific features may be summoned with the F1 key.

6.17.1 How to Use the Help File

To open the Help screen select Help→PCHelp.

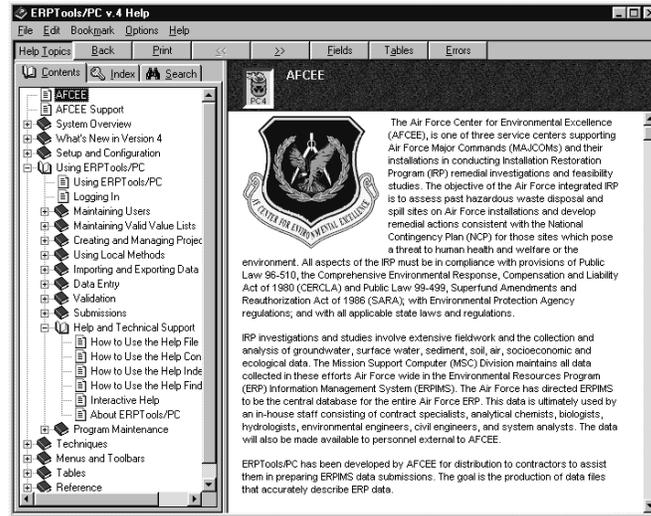


Figure 6-108 Help Screen

This Help File provides step-by-step operating instructions to end users of ERPTools/PC.

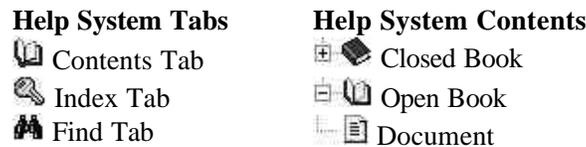


Figure 6-109 Help System Icons

Click the Help Topics button to open the Help Topics dialog. Select Contents (Book), Index (Key), or Find (Binoculars).

If the Help Topics area is displayed, clicking the Help Topics button will hide it.

6.17.1.1 HOW TO USE THE HELP CONTENTS TAB

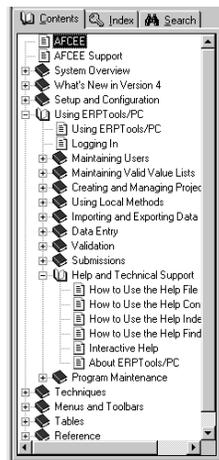


Figure 6-110 Help Contents Tab

The Help Contents tab contains a graphical table of contents for the ERPTools/PC Help system.

 If the Help Topics area is hidden, click the Help Topics button to open it. Click on the Open Book tab to show the Contents.

 Double click on a closed book icon, or single click on the plus icon beside it, to open the book and reveal its contents.

 Double click on an open book icon, or single click on the minus icon beside it, to close the book and collapse its contents.

 Click on a page icon to open that page.

6.17.1.2 HOW TO USE THE HELP INDEX TAB



Figure 6-111 Help Index Tab

 The Help Index tab contains a searchable index of ERPTools/PC keywords.

If the Help Topics area is hidden, click the Help Topics button to open it. Click on the Key tab to show the Index.

As you begin to type a keyword in the field at the top of the section, the index will scroll down to find that keyword in the list. Click on a keyword in the list to select it and open the topic associated with it. If there is more than one topic associated with the keyword, a dialog will open listing them. Click a topic in the list to open it.

6.17.1.3 HOW TO USE THE HELP FIND TAB

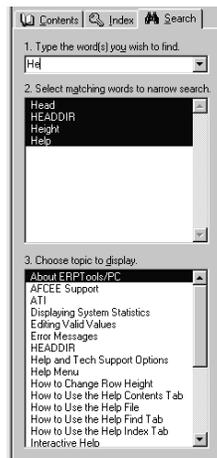


Figure 6-112 Help Find Tab

 The Help Find tab allows the user to search for any word in the Help file.

If the Help Topics area is hidden, click the Help Topics button to open it. Click on the Binoculars tab to show the Find area.

The first time you open the Find tab the Find Setup Wizard will assist you in setting up the Find function. You will only have to run this wizard once. If you want the capability to search with phrases, select the Maximize option.

To find a topic first type the words you wish to find in the drop down list. The drop down feature will keep track of recent words you have searched for.

As you type the words listed in the second, scrollable field will filter down. When you see the word you want to find, click on it to select it.

Clicking on a word in the second field will limit the topics in the last field to the ones containing that word. Click on a topic to select it and show that topic in the right pane.

6.17.2 Interactive Help

The F1 key calls interactive help screens from several different options. Clicking on a screen and clicking F1 will call help for the screen. Some controls and fields have their own F1 help topics. Information about error warnings is available when warning messages or dialogs are open.

6.17.3 How to Use Help for Errors

ERPTools/PC error messages (see Chapter 9 Error Messages) contain text descriptions of the errors encountered, eliminating the necessity of looking up error code numbers. If more information is needed, selecting the error and clicking the F1 key will open the on-line help file to the error, showing the cause of the error and the action necessary to correct it. The General System Error message box contains the information necessary to correct program coding errors.

6.17.4 Technical Support

To open the ERPTools/PC screen select Help→Tech Support. If you are connected to the Internet the ERPIMS Home Page will open in a browser window.

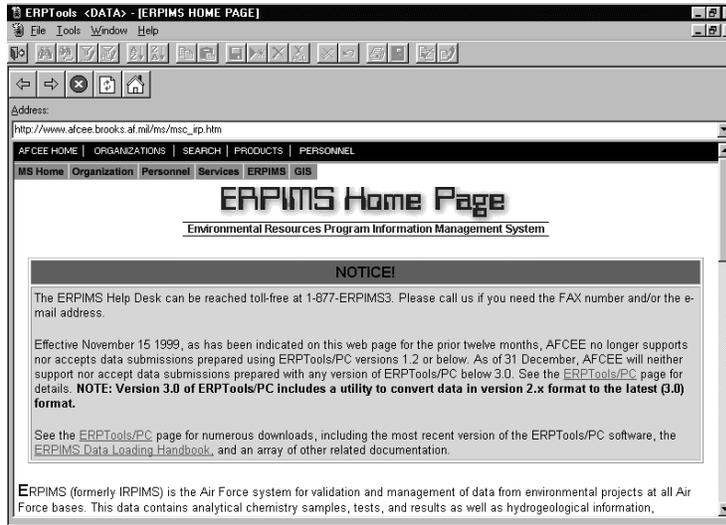


Figure 6-113 ERPIMS Tech Support Browser Window

The ERPIMS website contains information about ERPIMS and ERPTools/PC, as well as access to downloads of the latest information and software.

6.17.5 About ERPTools/PC

To open the About ERPTools/PC screen select Help→About ERPTools/PC.

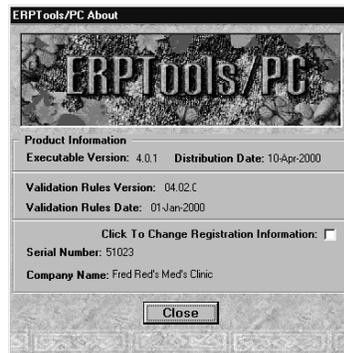


Figure 6-114 About ERPTools/PC Screen

The About ERPTools/PC screen shows program and validation rules versions, distribution date, and program copy information.

The screen also lets you change the Company Name entered when you installed ERPTools/PC. Check the Click to Change Registration Information check box and the Company Name field will become editable. Change the information and uncheck the check box.

6.17.5.1 UPGRADING FROM AN EVALUATION INSTALLATION

If you entered an evaluation mode serial number of 99999 when you installed ERPTools/PC the Serial Number field will also become active when you click on the Change Registration Information check box. To fully register the program call the ERPIMS Help Desk (See Section 1.2 AFCEE Support) for a serial number. Enter it into the field and close the screen, and your copy of ERPTools/PC will be fully functional.

6.18 OPTIMIZING DATABASES

Admin users only. This option is unavailable if a project is open.

Optimizing the databases should be part of the routine maintenance program. Databases can become corrupted, and during normal will continue to expand as records are added. The project files do not automatically contract in size if records are deleted. You should Optimize a project file after you delete a large number of records. Optimization will help maintain project databases in good condition. Databases should be optimized any time ERPTools/PC closes ungracefully: a General Protection Fault that crashed Windows, the PC was turned off or lost power while ERPTools/PC was running, etc. This procedure also repairs any damaged files.

To optimize a database close all projects, then select the Tools→Optimize Database option. The Optimize Database file dialog will open.

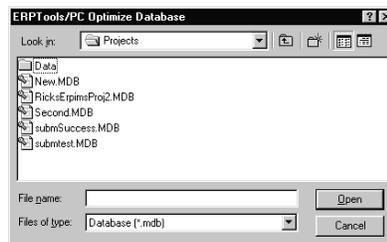


Figure 6-115 Optimize Database File Dialog

Select the database to be optimized and click the OK button. When the database has been optimized a dialog will open confirming the success of the process.

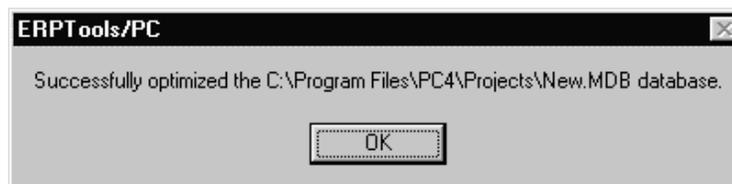


Figure 6-116 Successfully Optimized Message

Optimizing a database reduces the size of the database and insures maximum program performance. For best results, project databases and the ERPIMS4.MDB, LAB4.MDB, and REFINFO4.MDB database should be optimized regularly.

6.19 EXITING ERPTOOLS/PC

The File→Exit menu command or the Exit toolbar button serves a dual purpose. If you have any screens open the File→Exit or Exit toolbar button will close the active screen. If all the screens are closed these commands will allow ERPTools/PC to exit gracefully to Windows. As with most programs, quitting without using the Exit procedure will corrupt the program and files.

6.20 BACKUP PROCEDURE

To perform a backup, use an archiving or backup program to store your project data files in a backup location. In addition, to backup your user accounts and VVLs, include the file REFINFO4.MDB from the ERPTools/PC directory in the backup.

To restore from a backup, overwrite or replace the corrupted documents in your ERPTools/PC directory with your restored backup file.

7. TECHNIQUES

7.1 NAVIGATION SCREENS

7.1.1 How to Use a Selection Worksheet

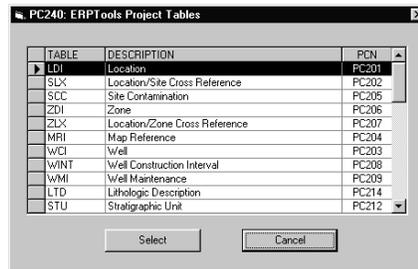


Figure 7-1 Typical Selection Worksheet

A Selection Worksheet is a worksheet used to select and open a Data Worksheet from a list of available worksheets. Select the worksheet required and click the Select button. ERPTools/PC will open that Data Entry Worksheet.

7.1.2 How to Use a File Dialog

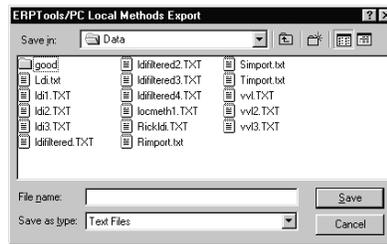


Figure 7-2 Typical File Dialog

Several ERPTools/PC commands open a Windows File dialog that allows you to select a database or text file. Navigate to the directory where the file is stored. Then click on the file to select it for the File Name text box and click “OK,” or double click on the file name. This is the standard Windows file dialog and provides all the standard functionality. Some of the file dialogs will also include a file preview feature.

7.2 MESSAGE BOXES

ERPTools/PC uses several types of pop-up message boxes.



Figure 7-3 Typical Process Status Message

Process status message boxes notify you of the status of the process. These message boxes require you to click a button on the box to continue.

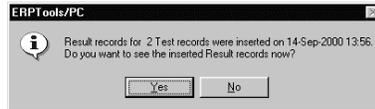


Figure 7-4 Typical Information Message

Information message boxes notify you that an action is complete, and may offer a choice of actions.



Figure 7-5 Typical Error Message

Error message boxes notify you of an error condition. These message boxes require you to click a button to continue.

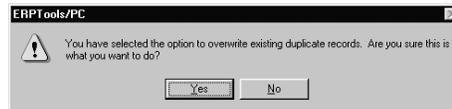


Figure 7-6 Typical Warning Message

Warning message boxes issue a warning and may ask you to confirm the action about to be taken.



Figure 7-7 Typical Decision Message

Decision message boxes explain a situation where you must choose from more than one possible course of action to continue.

7.3 HOW TO USE DIALOG SCREENS

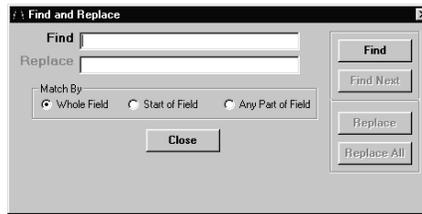


Figure 7-8 Typical Dialog Screen

Dialog screens contain fields to hold the entered values. These include text fields, drop down lists, check boxes, and radio buttons.

7.3.1 How to Use a Text Field

Text fields hold values that are not limited to a few valid choices, for example passwords.



Figure 7-9 Typical Text Field

To enter a value in a text field, either tab into the field or click on it to insert the cursor. Then type the value you want to enter. Pressing the Tab key will save the value and advance to the next field. Clicking on another field will save the value and move the cursor to the new field.

Most fields are restricted as to what kind of value is acceptable. Date fields are a typical example, and will produce an error if you attempt to enter something besides a valid date.

7.3.2 How to Use Drop Down Lists

Drop down lists limit a field to a choice of one value in a list of valid values, for instance the list of AFIDs.

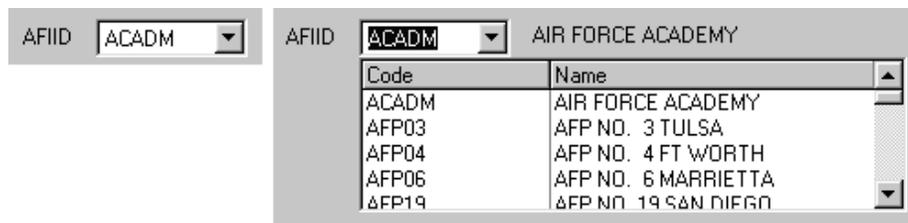


Figure 7-10 Typical Drop Down List

Click on the down arrow to the right of the field to open the drop down list of values. If you start typing the value you want in the field the list will scroll down to find the first instance matching what you have typed. You can also scroll down using the vertical scroll bar.

Once you find the value you want to record, click on it. The drop down list will close, and the value will be placed in the field.

7.3.3 How to Use Check Boxes

Check boxes allow you to select a true or false response to an item, depending on whether they are checked or not.



Figure 7-11 Typical Check Box

Click on a check box to change its value. If it contains a check mark it means you want the statement to be true. If the box is empty, clicking will check it. If it is checked, clicking will empty it.

7.3.4 How to Use Option Buttons

Option buttons allow you to select one of several values.

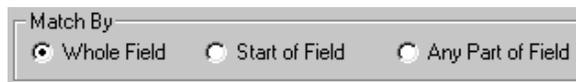


Figure 7-12 Typical Option Buttons

Option buttons come in a set, and you can only select one at a time. Click on the option button you want to select and a dot will appear in it; while the remaining options are deselected.

7.4 DATA ENTRY WORKSHEETS

The Data Entry worksheet is the heart of ERPTools/PC. Data Entry screens hold spreadsheet type worksheets. Each worksheet displays all the records of a database table, allowing you to manipulate and edit records. Worksheets are set up in table format with each row representing one record and each column representing a record field.

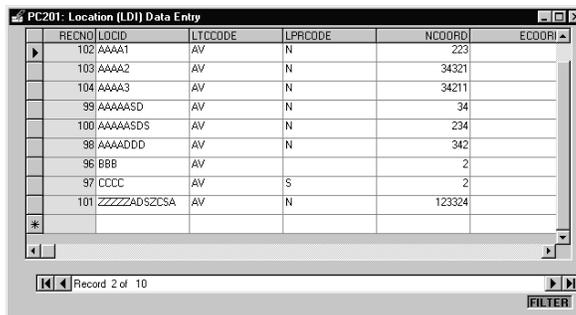


Figure 7-13 Typical Data Entry Screen

Fields that cannot be edited are colored blue. These include record number, date updated, user updating, validation status, and submission date. The current record is shown by a triangle in

the record selector button to the left of the record, which changes to a pencil while the record is being edited. A new record is shown by an asterisk in the record selector.

Below the worksheet is a navigation bar with buttons that allow you to select the first, previous, next, or last record in the dataset. The center of the bar displays the number of the active record and the number of records in the set. If the records are filtered the orange Filter warning will be displayed below the right end of the navigation bar. If the filter warning is displayed, you can right click on it to see what the actual filter is.

More than one worksheet may be open at a time, limited by available computer memory. These screens may be resized by dragging the edges or corners with the cursor.

7.4.1 How to Move Worksheets

You can move worksheets within the Main screen to make it easier to see more than one of them. Click on the title bar and drag the worksheet to the desired location.

7.4.1.1 HOW TO CASCADE WORKSHEETS

Click the Window → Cascade menu command to cascade the worksheets.

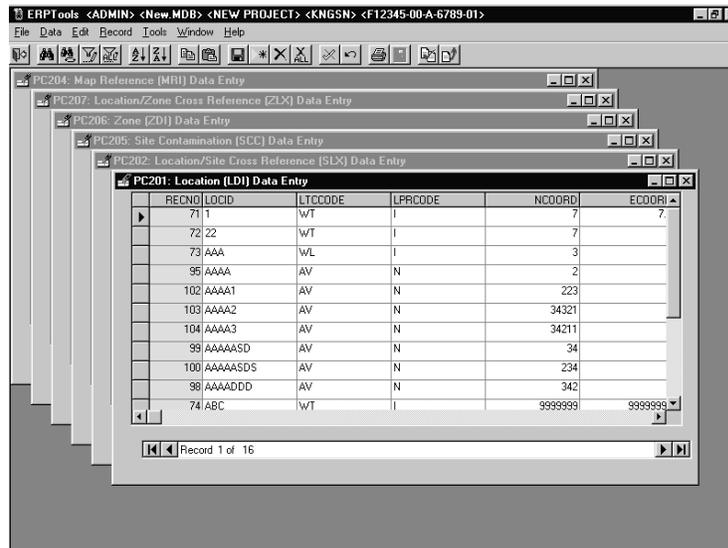


Figure 7-14 Cascaded Worksheets

The worksheets will cascade in the order they were last accessed, with the newest on top.

7.4.1.2 HOW TO TILE WORKSHEETS

Click the Window → Tile Vertical menu command to tile the worksheets in up and down rows.

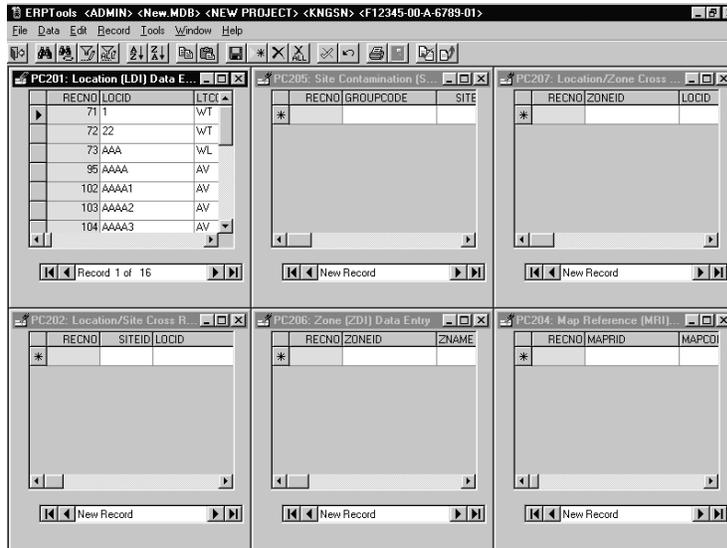


Figure 7-15 Worksheets Tiled Vertically

Click the Window → Tile Horizontal menu command to tile the worksheets in side to side rows.

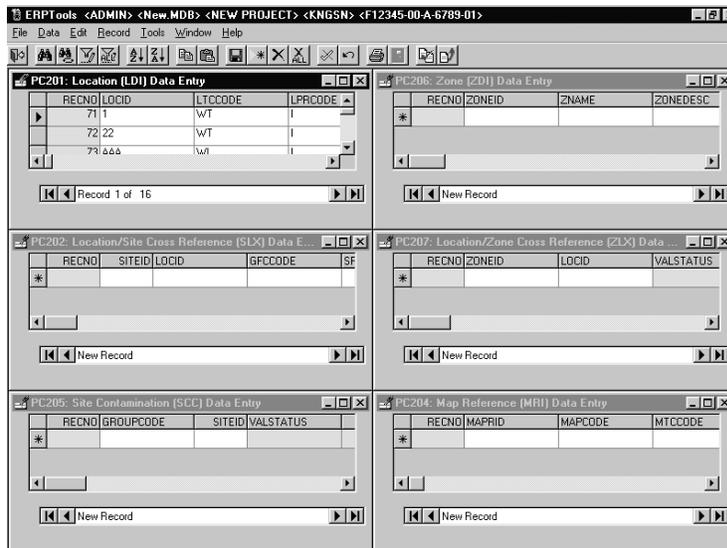


Figure 7-16 Worksheets Tiled Horizontally

7.4.2 How to Select

7.4.2.1 HOW TO SELECT A FIELD

To select a field click on it. All the data in the field will be selected. Typing a new entry will overwrite the old entry.

NCOORD
2
223
34321

Figure 7-17 Selected Cell

To change an entry click twice. The entry will reverse color and the cursor will become an I-beam. Click next to the character to be edited, backspace or delete, and enter the new character.

NCOORD
2
223
34321

Figure 7-18 Insertion Point

If the field selected contains data subject to a valid value list the VVL arrow will appear.

LTCCODE
AV
AV
AV

Figure 7-19 Selected VVL Cell

Note: Fields with a blue background are read-only, and cannot be selected. Fields on the View VVL Data screen and Validation History screen are also read only, and cannot be edited.

7.4.2.2 HOW TO SELECT A RECORD

To select a whole record move the cursor all the way to the left of the screen, until it becomes a right arrow. Click on the record to be selected.

95	AAAA	AV	N	2
102	AAAA1	AV	N	223
103	AAAA2	AV	N	34321

Figure 7-20 Selected Record

7.4.2.3 HOW TO SELECT MORE THAN ONE RECORD

To select more than one record select the first record, then hold the CTRL key down while selecting subsequent records. Clicking on a selected record while holding the CTRL key down will unselect it.

	95	AAAA	AV	N
▶	102	AAAA1	AV	N
	103	AAAA2	AV	N
	104	AAAA3	AV	N
	99	AAAAASD	AV	N
→	100	AAAAASDS	AV	N
	98	AAAADDD	AV	N

Figure 7-21 Multiple Selections

To select a number of adjacent records click the first record, then hold the SHIFT key down while clicking the last record in the set. All records between the two will also be selected.

Note: Records on the View VVL Data screen are read only, and cannot be selected.

7.4.2.4 HOW TO DESELECT ALL RECORDS

The Record→Deselect All option or Deselect All toolbar button leaves all records unselected.

7.4.3 How to Change Column Order

To change the order of columns click on the column header to select the column you want to move. Click on the header again, and a copy of the header will appear under your cursor. Two red arrowheads will appear on the left side of the column head. Drag the cursor right or left until the arrowheads are where you want to insert the column you are moving.

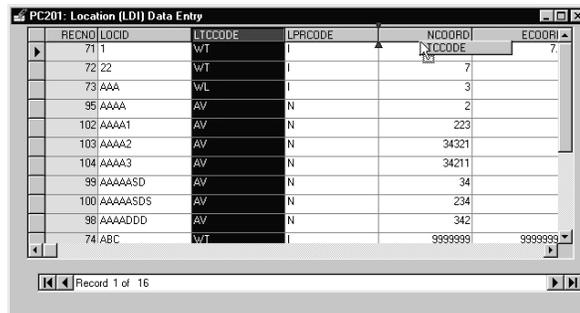


Figure 7-22 Moving a Column

Note: When you close the screen the columns will return to their default order.

7.4.4 How to Change Column Width

To change column width place the cursor over the right boundary of the header of the column to be changed and wait until the cursor converts to a two-headed arrow. Click and drag the boundary to the desired width.

RECNO	LDCID	LTCCODE	LPRCODE	NCCORD	EDCOOR
71	1	WT	I	7	7
72	22	WT	I	7	
73	AAA	WL	I	3	
95	AAAA	AV	N	2	
102	AAAA1	AV	N	223	
103	AAAA2	AV	N	34321	
104	AAAA3	AV	N	34211	
99	AAAAASD	AV	N	34	
100	AAAAASDS	AV	N	234	
98	AAAADD	AV	N	342	
74	ABC	WT	I	9999999	9999999

Figure 7-23 Resizing a Column

Note: When you close the screen the columns will return to their default width.

7.4.5 How to Change Row Height

To change row height place the cursor over the bottom boundary of the record selector to be changed and wait until the cursor converts to a two-headed arrow. Click and drag the boundary to the desired height. Unlike columns, row height is the same for all rows. Making the height of one row larger or smaller changes all the rows.

RECNO	LDCID	LTCCODE	LPRCODE	NCCORD	EDCOOR
71	1	WT	I	7	7
72	22	WT	I	7	
73	AAA	WL	I	3	
95	AAAA	AV	N	2	
102	AAAA1	AV	N	223	
103	AAAA2	AV	N	34321	
104	AAAA3	AV	N	34211	
99	AAAAASD	AV	N	34	
100	AAAAASDS	AV	N	234	
98	AAAADD	AV	N	342	
74	ABC	WT	I	9999999	9999999
75	ABD	WT	I	2	
96	BBB			2	

Figure 7-24 Changing Row Height

7.5 EDITING FUNCTIONS

Editing functions are found in the Edit menu and the Toolbar.

7.5.1 How to Create a New Record

Select the Record→Goto→New option to create a new row in the datasheet where a record can be added. You can also create a new record by clicking the Add New Record toolbar button, or by Tabbing out of the last editable field in the last record of a datasheet. The new data row is marked with an asterisk in the record selector.

*					
---	--	--	--	--	--

Figure 7-25 New Data Row

7.5.2 How to Save a Record

The Record→Save Record option and the Save Current Record toolbar button writes the values in the current record to the database. You also save a record whenever you leave it and select another record.

Note: Once you save a record you cannot Undo the edits in the record.

7.5.3 How to Cut, Copy, and Paste

The Cut option removes the selected item, while copying it to the Clipboard. The Copy option copies the selected item to the Clipboard, but does not remove it. The paste option inserts the item stored in the Clipboard into a record at the insertion point.

You can cut or copy all or part of the value in any editable cell, or a complete record. If you copy from a cell the value can be pasted into a cell. If you copy a record and paste, the record will be added as a new record at the end of the current worksheet. You can only paste records into the same table they were cut or copied from.

7.5.4 How to Undo

The Undo option reverses unsaved edits in the current record and returns it to a pre edit state.

7.5.5 Entering Data

The current existing record will be identified by a triangle in the row's header. A new record will have an asterisk in the record selector.

When a record is in the process of being edited the triangle will change to a pencil.

	RECNO	LOCID	LTCCODE
	102	AAAA	AV
	103	AAAA2	AV

Figure 7-26 Typical Record Being Edited

Enter records by typing the correct value into each field or selecting a value from a drop down list. Use the TAB key to advance to the next field.

7.5.5.1 HOW TO EDIT DATA FIELDS

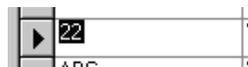


Figure 7-27 Typical Data Entry Cell

When you click on a cell or Tab into it any text in the cell will be selected. Use your keyboard to enter the new value. Press the Tab key to move to the next cell.

7.5.5.2 HOW TO EDIT DROP DOWN LISTS

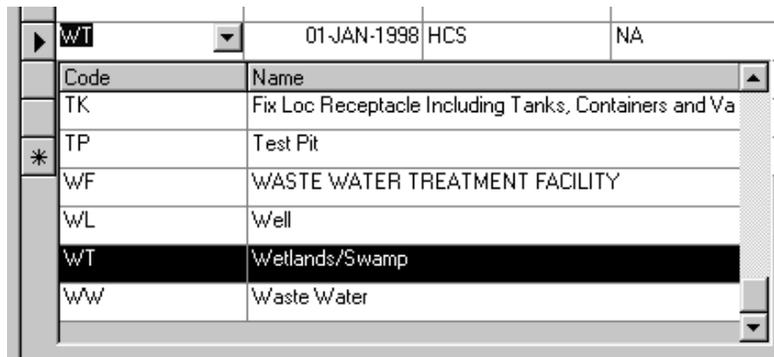


Figure 7-28 Typical Drop Down List

To select a value for a drop down list click on the arrow on the right of the cell, then click on the value to be entered. If you type the first several letters of the value the drop down list will scroll down to the first value that matches what has been typed. You can also use the Alt-Down Arrow key to display the drop down list.

7.5.6 How to Delete Records

The Delete option removes one or more selected records from the table. The Delete All option removes all displayed records from the table.

Warning: Unlike most Windows programs, database programs like ERPTools/PC have no Undo procedure for restoring deleted records.

7.5.6.1 HOW TO DELETE SELECTED RECORDS

Note: You must select one or more complete records. Selecting a cell, or entering the record by tabbing, etc. will not select the record. Attempting to delete records without selecting at least one will open a message stating that no records are selected for deletion.

First, select the row or rows to be deleted. Select the Record→Delete Selected menu command or click the Delete Selected Records toolbar button. This opens the Delete Confirmation warning telling you how many rows are about to be deleted, and asking if you want to continue.



Figure 7-29 Delete Confirmation Warning

Click the Yes button to delete the records, or No to cancel the deletion. If the table is a parent then an additional message will be shown asking you if you want to delete all the child records.

The application does not check if any child records actually exist but if the table is a parent table in a parent-child relationship.

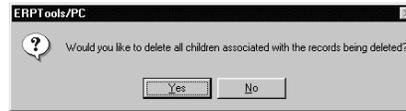


Figure 7-30 Delete Children Warning

Clicking “Yes” deletes the selected records and all child records in linked tables. A message box will open confirming the number of rows deleted. Click OK to close it.

7.5.6.2 HOW TO DELETE ALL RECORDS

Warning: Unlike most Windows programs, database programs like ERPTools/PC have no Undo procedure for restoring deleted records.

If you want to delete all records in a table, make sure all records are visible and the table is not filtered.

When the records in a table have been filtered, the Delete All command deletes only the records visible, leaving in the table the records that were filtered out. To delete a portion of the records in a table, first use the filtering procedure to filter out the records that should remain.

The Record→Delete All menu command or toolbar button opens the Delete All Confirmation Dialog Box.

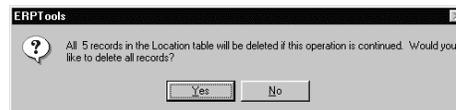


Figure 7-31 Delete All Warning

Clicking “Yes” deletes all records currently shown in the table unless there are child records in linked tables. If there are, the Delete Children warning will appear.



Figure 7-32 Delete Children Warning

Click OK to delete all the records. A warning will open telling you how many rows were deleted.

Note: The Optimize Database procedure compresses ERPTools/PC databases to their smallest physical size in the hard disk. ERPTools/PC project databases should be optimized any time a number of records are deleted.

7.6 PREVIEWING, SAVING, AND PRINTING REPORTS

All the reports in ERPTools/PC, except for one report from the Data Entry screen, are displayed or previewed using the Report Preview screen.

List of VVL Changes for NEW PROJECT Projec

VVL NAME: ANPARXREF **DESCRIPTION:** Analytical Method/Analyte Cross Reference

ANMCODE	MATRIX	PARLABEL	UPUSER	UPDATE
E625	W	PYR	RICK	24-Sep-1999
E625	W	PCB1016	RICK	24-Sep-1999
E625	W	PCB1232	RICK	24-Sep-1999
E625	W	PCB1242	RICK	24-Sep-1999
E625	W	PCB1248	RICK	24-Sep-1999
E625	W	PCB1254	RICK	24-Sep-1999
E625	W	PCB1260	RICK	24-Sep-1999
E625	W	PCP	RICK	24-Sep-1999
E625	W	PH246ER	RICK	24-Sep-1999
E625	W	PH2F	RICK	24-Sep-1999
E625	W	RMX33	RICK	24-Sep-1999

Figure 7-33 Typical Report Preview Screen

7.6.1 How to Preview a System Statistics Report

Open the Tools→View System Statistics menu and select the report you want. The menu contains the List Local Methods report, the Changed Local Methods report, the Submission Status report, and the Changed VVLs Report. The Report Preview screen for that report will open.

7.6.2 How to Preview an Error Report

With an Error Editor screen open, select the File→Preview Error Report option or click the Preview Error Report button. A Report Preview screen will open showing the errors for that table.

7.6.3 Using the Report Preview Screen

The Report Preview screen opens over the ERPTools/PC screen, and has its own menu.

7.6.3.1 HOW TO PREVIEW A REPORT

Use the toolbar buttons to zoom in and out, navigate to the next or previous page, or select the last page viewed. The zoom drop down list lets you select a specific resolution.

The Contents button opens a Contents area on the left side of the Report Preview screen.

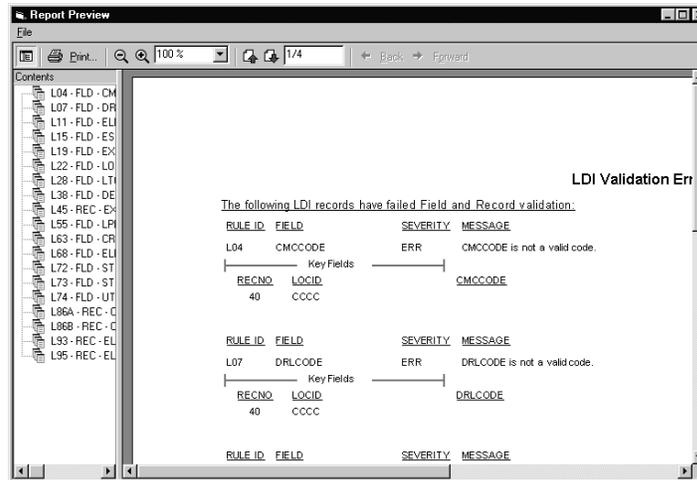


Figure 7-34 Report Preview Screen Showing Contents

The Contents area lists the sections of the report. Click on a heading to scroll to that part of the report. You can make the contents area wider or narrower by moving the border with your cursor. If you point the cursor at the icon to the left of an item, the program will show you a Screen Tip with the complete title of that item.

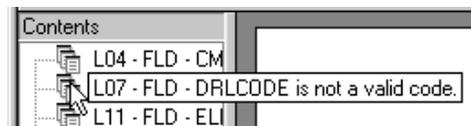


Figure 7-35 Typical Screen Tip

Some reports may not have a contents table.

7.6.3.2 HOW TO SAVE A REPORT

You can save a reports in two formats, Acrobat *.PDF files or Rich Text Format *.RTF files. Select the type of output on the Report Preview File Menu. A file dialog screen will open so you can select the destination and name of the export file. Click Save to export the report.

7.6.3.3 HOW TO PRINT A REPORT

To set print options without printing, select the File→Printer Setup option to open your Print Setup screen. Set page layout options and select the printer to send the report to. To print the report, select the File→Print option to open your Print screen. In many cases the two screens will be almost identical.

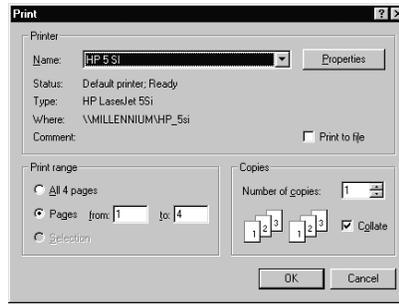


Figure 7-36 Typical Print Dialog Screen

Click OK to print the report.

8. MENUS AND TOOLBARS

The ERPTools/PC toolbar is standard throughout the program, but some of the menus are only visible under certain conditions. Toolbar buttons and menu options may be grayed, and unavailable, under some circumstances. Some options are disabled unless an Admin user is logged on.

8.1 MAIN MENU

The Main Menu is available on the ERPTools/PC Main screen.

8.1.1 Main Menu Toolbar

Once the username and password are validated the ERPTools/PC Main Window opens.



Figure 8-1 Main Menu

If no project is open the screen displays the username of the current user in the title bar. The menu bar contains the Application menu, File menu, Tools menu, Window menu, and Help menu. Only the Exit toolbar button is active.

8.1.1.1 MENU BAR WITH OPEN PROJECT

When you open a project the project information appears on the title bar.



Figure 8-2 Menu With Open Project

When a project is open the Data menu is included on the menu bar.

8.1.1.2 MENU BAR WITH OPEN SCREEN

When you open a data entry screen toolbar buttons become active.



Figure 8-3 Menu With Open Screen

When a data entry screen is open the Edit and Record menus are included.

8.1.1.3 TOOLBAR BUTTONS

-  Close closes ERPTools/PC or the currently active screen.
-  Find opens a Find dialog to search for values.
-  Replace opens a Find and Replace dialog to replace one value with another.
-  Edit Filter opens a Filter dialog to select criteria for filtering or sorting the current dataset.
-  Show All Records removes all applied filters and sorts for the current dataset.
-  Sort Ascending sorts the current dataset in ascending order by the selected field.
-  Sort Descending sorts the current dataset in descending order by the selected field.
-  Copy Cell/Record Copies the contents of the currently selected cell or record to the Windows Clipboard.
-  Paste Cell/Record Replaces the contents of the current cell or record with the contents of the clipboard.
-  Save Current Record Writes the current record to the file.
-  Add New Record adds a new, empty record at the end of the dataset.
-  Delete Selected Records removes all visible, selected records, and their child records, from the dataset. This process cannot be undone.
-  Delete All Records removes all visible records, and their child records, from the dataset. This process cannot be undone.
-  Deselect All Records returns all records in the current dataset to unselected status.
-  Undo Current Edit/Add returns the contents of the current record to the values presently in the database.
-  Print Current View prints the records in the active data screen as filtered and sorted.
-  Preview Error Report prints the errors shown in an Error Editor screen.
-  Validate Current View
-  Export Current View

8.1.2 Application Menu



Figure 8-4 Application Menu

The Application Menu, opened by clicking on the application icon in the upper left corner of the window, provides commands for manipulating the Program Window, and duplicates the actions of the Screen Control buttons. The shortcut key to open the Control Menu is [ALT + SPACEBAR].

- Restore - Restores the window to its last intermediate size after it has been minimized or maximized.
- Move - Moves the window on the computer screen. This option can be used to move a window down with keystrokes if it opens too high to drag it using the title bar. Open the menu using the shortcut [ALT-SPACEBAR]. Press the M key to select the Move option, then use the keyboard [DOWN ARROW] to move the window down. Press ENTER to place the window.
- Size - Resizes the window by moving the right or bottom edge. Open the menu using the shortcut [ALT-SPACEBAR]. Press the S key to select the Size option, then use the keyboard arrow keys to move the window edges. Press ENTER to place the window.
- Minimize - Minimizes the window into an icon at the lower edge of the screen.
- Maximize - Expands the window to fill the monitor screen.
- Close - Closes ERPTools/PC.

8.1.3 File Menu

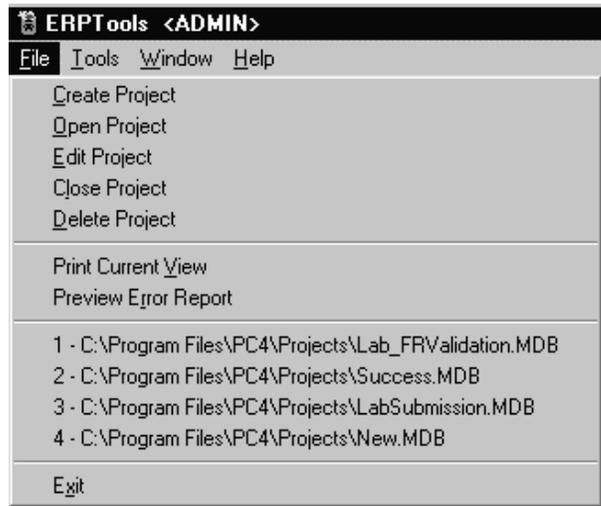


Figure 8-5 File Menu, Startup Screen

The File Menu displays the following options:

- Create Project - Creates a new project.
- Open Project - Opens a selection screen where you can select a project to open.
- Edit Project - Opens the Edit ERPTools Project Information dialog so you can change a project's identifying information.
- Close Project - Closes the open project.
- Delete Project - Opens the Project Delete file dialog screen so you can choose a project to delete.
- Print Current View - Allows you to print the data from the current screen, as filtered and sorted.
- Preview Error Report - Allows you to print an error report of the data from the current screen, as filtered and sorted.
- A list of recent Projects - A shortcut list of the last four projects accessed. Click one of them to open that project.
- Exit - Logs you off, and allows ERPTools/PC to exit gracefully to Windows. As with most programs, quitting without using the Exit procedure will corrupt the program and files.

8.1.4 Data Menu

The Data menu is only available when a project is loaded.

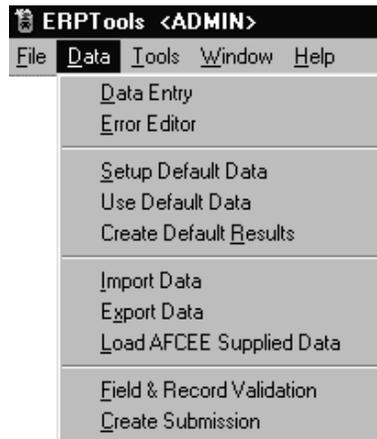


Figure 8-6 Data Menu

The Data Menu displays the following options:

- Data Entry - Opens the Project Tables selection screen so you can select and open a data table.
- Error Editor - Opens the Error Editor screen.
- Setup Default Data - Opens the Setup Default Data screen.
- Use Default Data - When this option is checked default values will be loaded into new records. Uncheck it to create new records without default data.
- Create Default Results - Opens the Create Default Results screen so you can create default results for records that have local methods.
- Import Data - Allows you to open a data table and select data which you can then import to the table.
- Export Data - Allows you to create a text file and export the data from a table to it.
- Load AFCEE Supplied Data - Allows you to select a file of AFCEE supplied data and load it into a project.
- Field & Record Validation – Allows you to perform Field and Record validation on one or more data tables.
- Create Submission - Allows you to validate data and export it into four secure files for AFCEE submission.

8.1.5 Edit Menu

The Edit menu is only available when a worksheet is open.



Figure 8-7 Edit Menu

The Edit Menu displays the following options:

- Cut - removes the selected text from the record, while copying it to the Clipboard.
- Copy - copies the selected text to the Clipboard, but does not remove it.
- Paste - inserts the text in the Clipboard at the insertion point.
- Undo - reverses the last action taken.
- Find - searches for records with data that matches the search criteria.
- Replace - substitutes a new value for the one found.
- Filter - limits the display of records in a table to those records meeting the filter's criteria.
- Show All - Removes all filters and displays all the records in the table.
- Validate Current View - Applies cell, record, and table validation criteria to the records displayed in the current record and lists errors.
- Export Current View - Allows you to create a text file and export the data in the current window to it.
- Calculate Percent Recovery - Automatically calculates percent recovery for records on the Result table in Lab projects. You can select whether to calculate all records, or only those with Null values in percent recovery.

8.1.6 Record Menu

The Record menu is only available when a worksheet is open.



Figure 8-8 Record Menu

The Record Menu displays the following options:

- Select Record - Selects all fields in the current record.
- Select All - Selects all records displayed in the current table.
- Deselect All - Removes selection from all records in the current table.
- Delete Selected - Deletes the selected records in the current table.
- Delete All - Deletes all records, as filtered, in the current table.
- Save Record - Writes the current values shown in the cells of the current record to the database.
- Goto> - Opens the Goto menu.
- Quick Sort> - Opens the Quick Sort menu.

8.1.6.1 GOTO MENU

The Goto menu is only available when a worksheet is open.

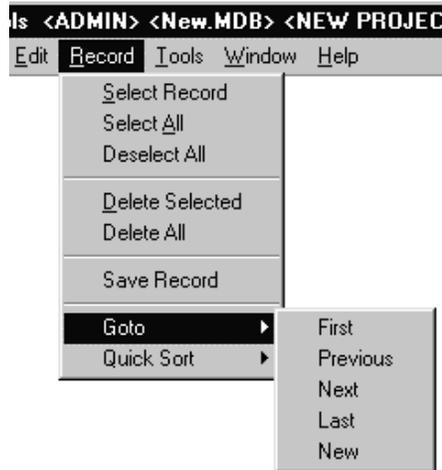


Figure 8-9 Goto Menu

The Goto Menu displays the following options:

- First - Selects the first record shown in the table, as sorted.
- Previous - Selects the record shown before the current record in the table, as sorted.
- Next - Selects the record shown after the current record in the table, as sorted.
- Last - Selects the last record shown in the table, as sorted.
- New - Adds a new row at the end of the table where values for a new record can be entered.

8.1.6.2 QUICK SORT MENU

The *Quick Sort* menu is only available when a worksheet is open.

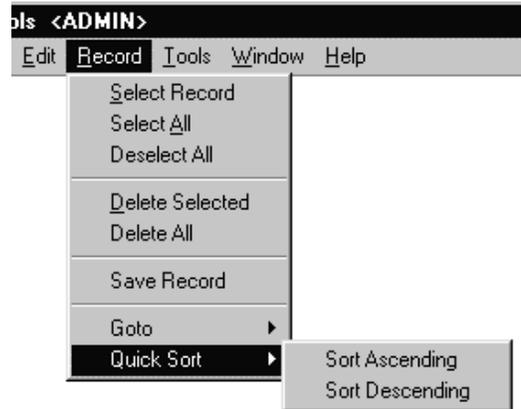


Figure 8-10 Quick Sort Menu

The Quick Sort Menu displays the following options:

- Sort Ascending - Sorts the records visible in a table by the values in the current column, with the lowest value first.
- Sort Descending - Sorts the records visible in a table by the values in the current column, with the highest value first.

8.1.7 Tools Menu

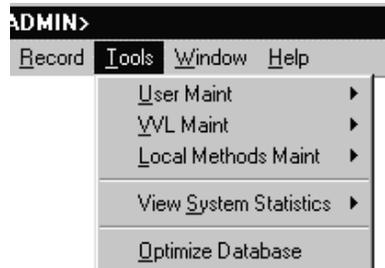


Figure 8-11 Tools Menu

The Tools Menu displays the following options:

- User Maint> - Opens the User Maint menu.
- VVL Maint> - Opens the VVL Maint menu.
- Local Methods Maint> - Opens the Local Methods Maint menu.
- View System Statistics> - Opens the View System Statistics menu.

- Optimize Database - Allows you to select a database and optimize it.

8.1.7.1 USER MAINT MENU

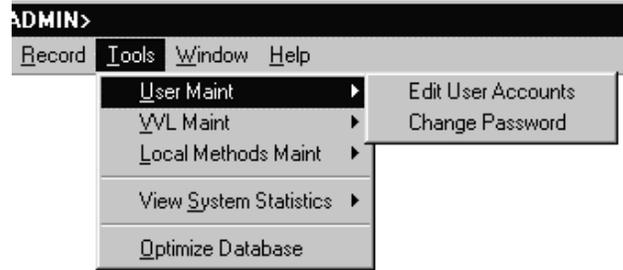


Figure 8-12 User Maint Menu

The User Maint Menu displays the following options:

- Edit User Accounts - Allows an Admin user to edit the information in user accounts.
- Change Password - Allows you to change your own password.

8.1.7.2 VVL MAINT MENU

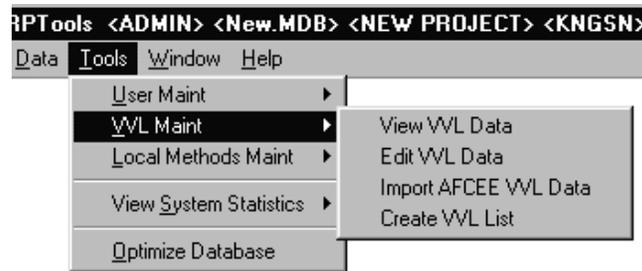


Figure 8-13 VVL Maint Menu

The VVL Maint Menu displays the following options:

- View VVL Data - Opens a selection screen where a user can open a VVL table and view the records.
- Edit VVL Data - Opens a selection screen where an Admin user can open a VVL table and edit the values.
- Import AFCEE VVL Data - Opens a selection screen where an Admin user can select AFCEE data to add to a VVL table.
- Create VVL List - Opens a file dialog screen where an Admin user can create a text file and export the values in a VVL table. This data cannot be imported to the VVL table.

8.1.7.3 LOCAL METHODS MAINT MENU

Admin users only. The Local Methods Maint menu is only available when a project is loaded.

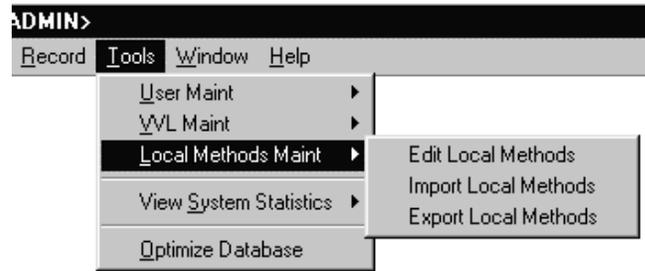


Figure 8-14 Local Methods Maint Menu

The Local Methods Maint Menu displays the following options:

- Edit Local Methods - Opens a data screen where you can edit local methods values.
- Import Local Methods - Opens a file dialog screen where you can select a file to add to local methods.
- Export Local Methods - Opens a file dialog screen where you can create a text file and export the values in local methods.

8.1.7.4 VIEW SYSTEM STATISTICS MENU

The View System Statistics menu is only available when a project is loaded.

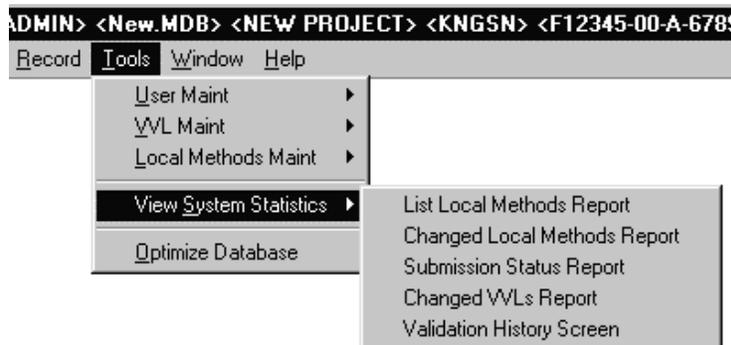


Figure 8-15 View System Statistics Menu

The Menu displays the following options:

- List Local Methods Report - Opens a report screen showing a list of local methods.
- Changed Local Methods Report - Opens a report screen showing changes in local methods.
- Submission Status Report - Opens a report screen showing the submission status of tables.

- Changed VVLs Report - Opens a report screen showing changes in VVLs.
- Validation History Screen - Opens a screen showing the project's validation history.

8.1.8 Window Menu

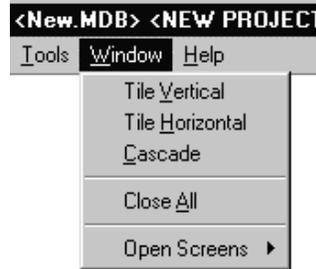


Figure 8-16 Window Menu

The Window Menu displays the following options:

- Tile Vertical - Displays all open screens in a vertical arrangement.
- Tile Horizontal - Displays all open screens in a horizontal arrangement.
- Cascade - Displays all open screens in a diagonal arrangement showing the screen's title bars.
- Close All - Closes all open screens.
- Open Screens> - Opens the Open Screens menu.

8.1.8.1 OPEN SCREENS MENU

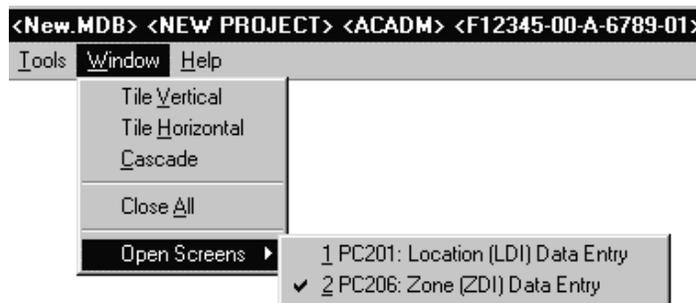


Figure 8-17 Open Screens Menu

The Open Screens Menu displays the titles of all open screens. Click on a screen title to activate its screen and bring it to the top. The active screen is the one checked.

8.1.9 Help Menu



Figure 8-18 Help Menu

The Help Menu displays the following options:

- PCHelp - Opens the online Help file.
- Tech Support - To report a bug or suggest a fix for ERPTools/PC. See 1.2 AFCEE Support.
- About ERPTools/PC - Opens the About ERPTools/PC screen, which displays information about ERPTools/PC and system resources.

The Help screen provides access to Windows standard help. Help can also be displayed by clicking the [F1] key.

8.2 REPORT PREVIEW MENU

A report opens in a new window, and has its own menu bar. There are two types of online reports, System Statistics reports and Error reports.

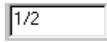
8.2.1 Report Preview Menu Bar



Figure 8-19 Report Menu Bar

8.2.1.1 REPORT PREVIEW MENU BUTTONS

- | | |
|--|---|
|  | Contents toggles the Contents area of the report screen. |
|  Print... | Print opens the Print dialog so you can print or preview the report. |
|  | Zoom Out allows you to see more of the report by showing it smaller. |
|  | Zoom In allows you to see more of the report's detail by showing it larger. |
|  100 % | The Zoom drop down list allows you to set the report's display size. |
|  | Previous Page shows the previous page of the report. |
|  | Next Page shows the next page of the report. |



The Page counter gives the current page number and the number of pages.



Back shows the last page you visited.



Forward shows the last page you moved back from.

8.2.2 Report Preview File Menu



Figure 8-20 Report Preview File Menu

The Report Preview File Menu displays the following options:

- PDF Export – Creates an Acrobat file of the preview.
- RTF Export - Creates a Rich Text Format file of the preview.
- Print - Prints the current preview.
- Printer Setup - Opens your standard printer interface dialog so you can set printing options and select a printer.
- Exit - Closes the Report Preview screen.

8.3 PRINT PREVIEW MENU

A print preview opens in a new window, and has its own menu bar.

8.3.1 Print Preview Menu Bar

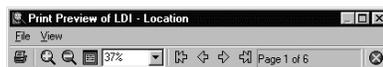


Figure 8-21 Print Preview Menu Bar

8.3.1.1 PRINT PREVIEW MENU BUTTONS



Print prints the report.



Zoom In allows you to see more of the report's detail by showing it larger.

-  Zoom Out allows you to see more of the report by showing it smaller.
-  Fit In Window zooms the report page to fit in the displayed window.
-  The Zoom drop down list allows you to set the report's display size.
-  The Navigation controls allow you to select the first, previous, next, or last page.
-  The Page counter gives the current page number and the number of pages.
-  Stop Pagination allows you to escape from the pagination process for large tables.

8.3.2 Print Preview File Menu

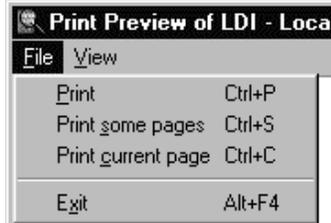


Figure 8-22 Print Preview File Menu

The Print Preview File Menu displays the following options:

- Print - Prints the current preview.
- Print Some Pages - Allows you to select a range of pages in the current preview to print.
- Print Current Page - Prints the current page in the current preview.
- Exit - Closes the Print Preview screen.

8.3.3 Print Preview View Menu

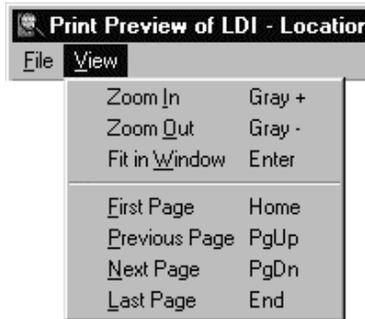


Figure 8-23 Print Preview View Menu

The Print Preview View Menu displays the following options:

- Zoom In - Allows you to see more of the report's detail by showing it larger.

- Zoom Out - Allows you to see more of the report by showing it smaller.
- Fit In Window Zooms the report page to fit in the displayed window.
- First Page - Shows the first page of the current print preview.
- Previous Page - Shows the previous page of the current print preview.
- Next Page - Shows the next page of the current print preview.
- Last Page - Shows the last page of the current print preview.

8.4 BROWSE MENU

The Browse screen opens in the ERPTools/PC Main screen, and adds a limited Browser toolbar.



Figure 8-24 Browse Menu

8.4.1 Browse Menu Buttons



Back jumps to the screen used to jump to the present screen.



Forward jumps to the screen where you used the Back button to navigate to the present screen.



Stop halts any downloads or jumps that are still in progress.



Refresh reloads and updates the information shown on the current screen.



Home jumps to the home page set in your normal browser.

8.4.2 Address Field



Figure 8-25 Browse Menu Address Field

The Browse menu Address field shows you the uniform resource locator (URL) for the current web page. The drop down list shows recently visited addresses, and allows you to enter a URL you want to visit.

9. ERROR MESSAGES

Validation Rules Version 4.0.0.

A

A02

Applies to: **CALCPARCODE is not a valid code.**

Severity: Error

Cause: The CALCPARCODE code you have entered was not found in the valid value list CPC

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

A03

Applies to: **LOGDATE can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

A04

Applies to: **LOGDATE is not in required format.**

Severity: Error

Cause: The value entered in the indicated field cannot be interpreted as a valid date. When you enter an all-numeric date value, ERPTools/PC attempts to interpret it according to the international short date settings found in the Windows(r) control panel. For example, if the international date setting is DMY, the string 4-5-95 will be interpreted as 4-May-95. (NOTE: Due to a bug in the Microsoft Access date conversion functions, the YMD format is not supported in this version).

Action: Check your Windows(r) date settings for the correct format to enter numeric date values. If you still experience problems, use a non-numeric date value (i.e. 4-May-95).

A05

Applies to: **LOGDATE can not be later than validation date.**

Severity: Error

Cause: The value in the LOGDATE field is greater than your system's date.

Action: Verify that the date settings in your system are up to date. If they are, correct the value of the LOGDATE field to reflect the actual date the analysis was performed.

A06

Applies to: **LOGTIME can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

A07

Applies to: **LOGTIME is not in required format.**

Severity: Error

Cause: The value entered in the indicated field cannot be interpreted as a valid time.

Action: Enter a four digit number between 0000 and 2359.

A08

Applies to: **PARVAL can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

A09

Applies to: **PARVAL is not a number.**

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

A10

Applies to: **Numeric value too large. Max value is 9999999999.9999**

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field;
9999999999.9999

Action: Verify the accuracy of your entry and correct the data

A11

Applies to: **LOCID can not be null.**

Severity: Error

Cause: LOCID is a required field

Action: Enter a valid LOCID

A12

Applies to: **UNITS is not a valid code.**

Severity: Error

Cause: The UNITS code you have entered was not found in the valid value list UTM

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in
finding the correct valid value code

A13

Applies to: **PARVAL must be greater than zero when CALCPARCODE is 'K' or 'T'.**

Severity: Error

Cause: The value of the PARVAL field must be a positive number in records where the value
of the CALCPARCODE field is set to K or T.

Action: Verify the value of the PARVAL and CALCPARCODE fields. Correct as appropriate.

A14

Applies to: **PARVAL must be between 0 and 1 when CALCPARCODE is 'NE'.**

Severity: Error

Cause: The value of the PARVAL field must fall between 0 and 1 (inclusive) in records where the value of the CALCPARCODE field is set to NE.

Action: Verify the value of the PARVAL and CALCPARCODE fields. Correct as appropriate.

A15

Applies to: **PARVAL must be between 0 and 1 when CALCPARCODE is 'S'.**

Severity: Error

Cause: The value of the PARVAL field must fall between 0 and 1 (inclusive) in records where the value of the CALCPARCODE field is set to S.

Action: Verify the value of the PARVAL and CALCPARCODE fields. Correct as appropriate.

A18

Applies to: **CALCMETH is not a valid code.**

Severity: Error

Cause: The CALCMETH code you have entered was not found in the valid value list CMT

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

A19

Applies to: **TESTMETH is not a valid code.**

Severity: Error

Cause: The TESTMETH code you have entered was not found in the valid value list TMT

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

A20

Applies to: **AQBASEDEPT is not a number.**

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

A21

Applies to: **Numeric value too large. Max value is 99999.99**

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field; 99999.99

Action: Verify the accuracy of your entry and correct the data

A22

Applies to: **LOGCODE is not a valid code.**

Severity: Error

Cause: The LOGCODE code you have entered was not found in the valid value list LOG

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

A23

Applies to: **WELLDIST is not a number.**

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

A24

Applies to: **Numeric value too large. Max value is 9999.99**

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field; 9999.99

Action: Verify the accuracy of your entry and correct the data

A25

Applies to: **AQTHICK is not a number.**

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

A26

Applies to: **Numeric value too large. Max value is 99999.99**

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field; 99999.99

Action: Verify the accuracy of your entry and correct the data

A27

Applies to: **SUPPDATA is not a valid code.**

Severity: Error

Cause: The SUPPDATA code you have entered was not found in the valid value list SPD

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

A28

Applies to: **WTDEPTH is not a number.**

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

A29

Applies to: **Numeric value too large. Max value is 99999.99**

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field; 99999.99

Action: Verify the accuracy of your entry and correct the data

A30

Applies to: **AFIID does not match submission AFIID.**

Severity: Error

Cause: The AFIID field in the current record does not match the project AFIID.

Action: Verify that the correct file is being imported. If it is, correct the AFIID of the erroneous record to match the project AFIID.

AT02

Applies to: **AFIID does not match submission AFIID.**

Severity: Error

Cause: The AFIID field in the current record does not match the project AFIID.

Action: Verify that the correct file is being imported. If it is, correct the AFIID of the erroneous record to match the project AFIID.

AT03

Applies to: **LOCID can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

AT04

Applies to: **LOGDATE can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

AT05

Applies to: **LOGDATE is not in required format.**

Severity: Error

Cause: The value entered in the indicated field cannot be interpreted as a valid date. When you enter an all-numeric date value, ERPTools/PC attempts to interpret it according to the international short date settings found in the Windows(r) control panel. For example, if the international date setting is DMY, the string 4-5-95 will be interpreted as 4-May-95. (NOTE: Due to a bug in the Microsoft Access date conversion functions, the YMD format is not supported in this version).

Action: Check your Windows(r) date settings for the correct format to enter numeric date values. If you still experience problems, use a non-numeric date value (i.e. 4-May-95).

AT06

Applies to: **LOGDATE should not normally be later than validation date.**

Severity: Warning

Cause: The value in the LOGDATE field is greater than your system's date.

Action: Verify that the date settings in your system are up to date. If they are, correct the value of the LOGDATE field to reflect the actual date the analysis was performed.

AT07

Applies to: **LOGTIME can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

AT08

Applies to: **LOGTIME is not in required format.**

Severity: Error

Cause: The LOGTIME entered is not in the format HHMM

Action: Enter LOGTIME in the correct format, e.g., 1215

AT09

Applies to: **HEADDIR is not a valid code.**

Severity: Error

Cause: The HEADDIR code you have entered was not found in the valid value list CHD

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

AT10

Applies to: **LOGCODE is not a valid code.**

Severity: Error

Cause: The LOGCODE code you have entered was not found in the valid value list LOG

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

AT11

Applies to: **UNITS is not a valid code.**

Severity: Error

Cause: The UNITS code you have entered was not found in the valid value list UTM

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

AT12

Applies to: **SLUGVOL is not a number.**

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

AT13

Applies to: **Numeric value too large. Max value is 9999.99**

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field; 9999.99

Action: Verify the accuracy of your entry and correct the data

B**C****C02**

Applies to: **Invalid value.**

Severity: Error

Cause: The AFIID code you have entered was not found in the valid value list AFI

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

C03

Applies to: **Field cannot be blank.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

C04

Applies to: **Field cannot be blank.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

C05

Applies to: **DO_ID must be between 0 and 9999 if numeric.**

Severity: Error

Cause: The value entered in the DO_ID field must be between 0 and 9999 if using a numeric DO naming convention.

Action: Correct the value entered in the DO_ID field.

C13

Applies to: **DO_ID contains embedded or leading spaces.**

Severity: Error

Cause: The DO_ID field must not contain embedded or leading spaces.

Action: Enter a correct value for the DO_ID field.

C14

Applies to: **Field cannot be blank.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

D**D02**

Applies to: **ASTM can not be 'NAUM'.**

Severity: Error

Cause: The ASTMCODE field is set to NAUM.

Action: Enter a correct value for this field.

D03

Applies to: **ASTMCODE is not a valid code.**

Severity: Error

Cause: The ASTMCODE code you have entered was not found in the valid value list AST

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

D04

Applies to: **BEGDEPTH can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

D05

Applies to: **BEGDEPTH is not a number.**

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

D06

Applies to: **BEGDEPTH can not be greater than DEPTH in LDI.**

Severity: Error

Cause: The value in the BEGDEPTH field is greater than the value in the DEPTH field of the parent record.

Action: Verify that the value in the LOCID field is correct. If it is, enter a beginning depth.

D07

Applies to: **Numeric value too large. Max value is 99999.99**

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field; 99999.99

Action: Verify the accuracy of your entry and correct the data

D08

Applies to: **ENDDEPTH can not be blank.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

D09

Applies to: **ENDDEPTH is not a number.**

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

D10

Applies to: **ENDDEPTH is greater than DEPTH in LDI.**

Severity: Error

Cause: The value of the ENDDEPTH field is greater than the value of the DEPTH field in the parent record.

Action: Verify the values of the ENDDEPTH and DEPTH fields. Correct as appropriate.

D11

Applies to: **Numeric value too large. Max value is 99999.99**

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field; 99999.99

Action: Verify the accuracy of your entry and correct the data

D119

Applies to: **LOCID can not be null.**

Severity: Error

Cause: LOCID is a required field

Action: Enter a valid LOCID

D13

Applies to: **LITHCODE can not be 'NACM' or 'NAUM'.**

Severity: Error

Cause: The values NACM and NAUM are not appropriate for the LITHCODE field.

Action: Enter a correct value for the LITHCODE field.

D14

Applies to: **LITHCODE is not a valid code.**

Severity: Error

Cause: The LITHCODE code you have entered was not found in the valid value list LTH

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

D16

Applies to: **LOGCODE is not a valid code.**

Severity: Error

Cause: The LOGCODE code you have entered was not found in the valid value list LOG

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

D17

Applies to: **LOGDATE should not normally be null.**

Severity: Warning

Cause: The LOGDATE field is empty.

Action: Enter a correct value for the LOGDATE field

D18

Applies to: **LOGDATE is not in required format.**

Severity: Error

Cause: The value entered in the indicated field cannot be interpreted as a valid date. When you enter an all-numeric date value, ERPTools/PC attempts to interpret it according to the international short date settings found in the Windows(r) control panel. For example, if the international date setting is DMY, the string 4-5-95 will be interpreted as 4-May-95. (NOTE: Due to a bug in the Microsoft Access date conversion functions, the YMD format is not supported in this version).

Action: Check your Windows(r) date settings for the correct format to enter numeric date values. If you still experience problems, use a non-numeric date value (i.e. 4-May-95).

D19

Applies to: **LOGDATE should not normally be later than validation date.**

Severity: Warning

Cause: The value in the LOGDATE field is greater than your system's date.

Action: Verify that the date settings in your system are up to date. If they are, correct the value of the LOGDATE field to reflect the actual date the analysis was performed.

D23

Applies to: **Field cannot be blank.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

D24

Applies to: **Beginning depth is greater than ending depth.**

Severity: Error

Cause: The value in the BEGDEPTH field is greater than the value in the ENDDEPTH field.

Action: Verify the values of both fields and correct as necessary.

D29

Applies to: **Invalid value.**

Severity: Error

Cause: The ST_UNIT code you have entered was not found in the valid value list ()

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

D30

Applies to: **HS_UNIT is not a valid code.**

Severity: Error

Cause: The HS_UNIT code you have entered was not found in the valid value list ()

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

D31

Applies to: **AFIID does not match submission AFIID.**

Severity: Error

Cause: The AFIID field in the current record does not match the project AFIID.

Action: Verify that the correct file is being imported. If it is, correct the AFIID of the erroneous record to match the project AFIID.

DUP

Applies to: **Duplicate within this submission.**

Severity: Error

Cause: The key fields of the indicated record match those of an already existing record.

Action: Verify the value of the key fields in the indicated record.

E**EM01**

Applies to: **AFIID does not match submission AFIID.**

Severity: Error

Cause: The AFIID field in the current record does not match the project AFIID.

Action: Verify that the correct file is being imported. If it is, correct the AFIID of the erroneous record to match the project AFIID.

EM02

Applies to: **LOCID can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

EM03

Applies to: **LOGDATE can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

EM04

Applies to: **LOGDATE is not in required format.**

Severity: Error

Cause: The value entered in the indicated field cannot be interpreted as a valid date. When you enter an all-numeric date value, ERPTools/PC attempts to interpret it according to the international short date settings found in the Windows(r) control panel. For example, if the international date setting is DMY, the string 4-5-95 will be interpreted as 4-May-95. (NOTE: Due to a bug in the Microsoft Access date conversion functions, the YMD format is not supported in this version).

Action: Check your Windows(r) date settings for the correct format to enter numeric date values. If you still experience problems, use a non-numeric date value (i.e. 4-May-95).

EM05

Applies to: **LOGDATE can not be later than validation date.**

Severity: Error

Cause: The value in the LOGDATE field is greater than your system's date.

Action: Verify that the date settings in your system are up to date. If they are, correct the value of the LOGDATE field to reflect the actual date the analysis was performed.

EM06

Applies to: **LOGTIME can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

EM07

Applies to: **LOGTIME is not in required format.**

Severity: Error

Cause: The value entered in the indicated field cannot be interpreted as a valid time.

Action: Enter a four digit number between 0000 and 2359.

EM08

Applies to: **MATRIX is not a valid code.**

Severity: Error

Cause: The MATRIX code you have entered was not found in the valid value list MTX

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

EM09

Applies to: **SBD can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

EM10

Applies to: **SBD is not a number.**

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

EM11

Applies to: **Numeric value too large. Max value is 99999.99**

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field; 99999.99

Action: Verify the accuracy of your entry and correct the data

EM12

Applies to: **SED can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

EM13

Applies to: **SED is not a number.**

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

EM14

Applies to: **Numeric value too large. Max value is 99999.99**

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field; 99999.99

Action: Verify the accuracy of your entry and correct the data

EM15

Applies to: **ANADATE can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

EM16

Applies to: **ANADATE is not in required format.**

Severity: Error

Cause: The value entered in the indicated field cannot be interpreted as a valid date. When you enter an all-numeric date value, ERPTools/PC attempts to interpret it according to the international short date settings found in the Windows(r) control panel. For example, if the international date setting is DMY, the string 4-5-95 will be interpreted as 4-May-95. (NOTE: Due to a bug in the Microsoft Access date conversion functions, the YMD format is not supported in this version).

Action: Check your Windows(r) date settings for the correct format to enter numeric date values. If you still experience problems, use a non-numeric date value (i.e. 4-May-95).

EM17

Applies to: **ANADATE can not be later than validation date.**

Severity: Error

Cause: The value in the ANADATE field is greater than your system's date.

Action: Verify that the date settings in your system are up to date. If they are, correct the value of the ANADATE field to reflect the actual date the analysis was performed.

EM18

Applies to: **ANATIME can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

EM19

Applies to: **ANATIME is not in required format.**

Severity: Error

Cause: The value entered in the indicated field cannot be interpreted as a valid time.

Action: Enter a four digit number between 0000 and 2359.

EM20

Applies to: **ANATYPE is not a valid code.**

Severity: Error

Cause: The ANATYPE code you have entered was not found in the valid value list ANT

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

EM21

Applies to: **PARVAL is not a number.**

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

EM22

Applies to: **Numeric value too large. Max value is 99999.99**

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field; 99999.99

Action: Verify the accuracy of your entry and correct the data

EM23

Applies to: **UNITS is not a valid code.**

Severity: Error

Cause: The UNITS code you have entered was not found in the valid value list UTM

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

EM24

Applies to: **QUALIFIER is not a valid code.**

Severity: Error

Cause: The QUALIFIER code you have entered was not found in the valid value list EDQ

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

F**G****G04**

Applies to: **LOGCODE is not a valid code.**

Severity: Error

Cause: The LOGCODE code you have entered was not found in the valid value list LOG

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

G05

Applies to: **LOGDATE can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

G06

Applies to: **LOGDATE is not in required format.**

Severity: Error

Cause: The value entered in the indicated field cannot be interpreted as a valid date. When you enter an all-numeric date value, ERPTools/PC attempts to interpret it according to the international short date settings found in the Windows(r) control panel. For example, if the international date setting is DMY, the string 4-5-95 will be interpreted as 4-May-95. (NOTE: Due to a bug in the Microsoft Access date conversion functions, the YMD format is not supported in this version).

Action: Check your Windows(r) date settings for the correct format to enter numeric date values. If you still experience problems, use a non-numeric date value (i.e. 4-May-95).

G07

Applies to: **LOGDATE can not be later than validation date.**

Severity: Error

Cause: The value in the LOGDATE field is greater than your system's date.

Action: Verify that the date settings in your system are up to date. If they are, correct the value of the LOGDATE field to reflect the actual date the analysis was performed.

G08

Applies to: **LOGTIME can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

G09

Applies to: **LOGTIME is not in required format.**

Severity: Error

Cause: The value entered in the indicated field cannot be interpreted as a valid time.

Action: Enter a four digit number between 0000 and 2359.

G127

Applies to: **LOCID can not be null.**

Severity: Error

Cause: LOCID is a required field

Action: Enter a valid LOCID

G18

Applies to: **SOUNDING is not a number.**

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

G19

Applies to: **Numeric value too large. Max value is 99999.99**

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field; 99999.99

Action: Verify the accuracy of your entry and correct the data

G20

Applies to: **STATDEP is not a number.**

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

G21

Applies to: **Numeric value too large. Max value is 99999.99**

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field; 99999.99

Action: Verify the accuracy of your entry and correct the data

G26

Applies to: **STATDEP can not be greater than SOUNDING.**

Severity: Error

Cause: The value of the STATDEP field is greater than the value of the SOUNDING field.

Action: Verify the value of both fields. Correct as appropriate.

G27

Applies to: **STATDEP must be null when well is dry.**

Severity: Error

Cause: The STATDEP field is not empty. This is incorrect for groundwater records where the value of the DRY field is set to D.

Action: Verify the value of both fields. Correct as appropriate.

G39

Applies to: **IBDEPTH can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

G40

Applies to: **IBDEPTH is not a number.**

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

G41

Applies to: **Numeric value too large. Max value is 9999999.99**

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field;
9999999.99

Action: Verify the accuracy of your entry and correct the data

G42

Applies to: **IEDEPTH can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

G43

Applies to: **IEDEPTH is not a number.**

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

G44

Applies to: **Numeric value too large. Max value is 9999999.99**

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field;
9999999.99

Action: Verify the accuracy of your entry and correct the data

G46

Applies to: **DRY must be 'D' or 'W'.**

Severity: Error

Cause: The only allowed values for the DRY field are D and W.

Action: Enter a correct value for the DRY field.

G48

Applies to: **FTCODE is not a valid code.**

Severity: Error

Cause: The FTCODE code you have entered was not found in the valid value list FTC

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in
finding the correct valid value code

G50

Applies to: **MEASMETH is not a valid code.**

Severity: Error

Cause: The MEASMETH code you have entered was not found in the valid value list MMT

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

G51

Applies to: **AFIID does not match submission AFIID.**

Severity: Error

Cause: The AFIID field in the current record does not match the project AFIID.

Action: Verify that the correct file is being imported. If it is, correct the AFIID of the erroneous record to match the project AFIID.

H**HS02**

Applies to: **HS_UNIT can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

HS03

Applies to: **AFIID does not match AFIID in project information.**

Severity: Error

Cause: The AFIID entered does not match the AFIID for the current project.

Action: Correct the AFIID entered.

HS04

Applies to: **HSTYPE is not a valid code.**

Severity: Error

Cause: The HSTYPE code you have entered was not found in the valid value list LTH

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

I**I02**

Applies to: **GFCCODE is not a valid code.**

Severity: Error

Cause: The GFCCODE code you have entered was not found in the valid value list GFC

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

I05

Applies to: **SITEID is not a valid code.**

Severity: Error

Cause: The SITEID code you have entered was not found in the valid value list

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

I10

Applies to: **SITEID is not a number.**

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

I109

Applies to: **LOCID can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

I11

Applies to: **Numeric value too large. Max value is 999**

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field; 999

Action: Verify the accuracy of your entry and correct the data

I12

Applies to: **SPCODE is not a valid code.**

Severity: Error

Cause: The SPCODE code you have entered was not found in the valid value list SPR

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

I13

Applies to: **AFIID does not match submission AFIID.**

Severity: Error

Cause: The AFIID field in the current record does not match the project AFIID.

Action: Verify that the correct file is being imported. If it is, correct the AFIID of the erroneous record to match the project AFIID.

INV

Applies to: **Invalid value in LOCID field.**

Severity: Error

Cause: The LOCID code you have entered was not found in the valid value list

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

IV2

Applies to: **Invalid value in OBS_LOCATION field.**

Severity: Error

Cause: The OBS_LOCATION code you have entered was not found in the valid value list

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

J**K****L****L01**

Applies to: **BHDIAM is not a number.**

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

L02

Applies to: **BHDIAM should not normally be greater than 50 inches.**

Severity: Warning

Cause: The value in the BHDIAM field is greater than 50 inches.

Action: Enter a correct value for BHDIAM.

L03

Applies to: **Numeric value too large. Max value is 99.99**

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field; 99.99

Action: Verify the accuracy of your entry and correct the data

L04

Applies to: **CMCCODE is not a valid code.**

Severity: Error

Cause: The CMCCODE code you have entered was not found in the valid value list CMC

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

L05

Applies to: **DEPTH is not a number.**

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

L06

Applies to: **Numeric value too large. Max value is 99999.99**

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field; 99999.99

Action: Verify the accuracy of your entry and correct the data

L07

Applies to: **DRLCODE is not a valid code.**

Severity: Error

Cause: The DRLCODE code you have entered was not found in the valid value list DRL

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

L08

Applies to: **ECOORD must be greater than zero.**

Severity: Error

Cause: The value supplied for the ECOORD field is not a positive number.

Action: Enter a positive value for this field.

L09

Applies to: **ECOORD is not a number.**

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

L10

Applies to: **Numeric value too large. Max value is 99999999.99**

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field;
99999999.99

Action: Verify the accuracy of your entry and correct the data

L11

Applies to: **ELEV should not normally be null.**

Severity: Warning

Cause: The ELEV field is empty.

Action: Enter a correct value for this field.

L12

Applies to: **ELEV is not a number.**

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

L13

Applies to: **Numeric value too large. Max value is 99999.99**

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field; 99999.99

Action: Verify the accuracy of your entry and correct the data

L134

Applies to: **LOCID can not be 'FIELDQC' or 'LABQC'.**

Severity: Error

Cause: By default, the LOCID FIELDQC or LABQC was entered for you at the time of project creation. It should not be entered again.

Action: By default, the LOCID FIELDQC or LABQC was entered for you at the time of project creation. It should not be entered again.

L15

Applies to: **ESCCODE is not a valid code.**

Severity: Error

Cause: The ESCCODE code you have entered was not found in the valid value list ESC

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

L16

Applies to: **ESTDATE can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

L17

Applies to: **ESTDATE is not in required format.**

Severity: Error

Cause: The value entered in the indicated field cannot be interpreted as a valid date. When you enter an all-numeric date value, ERPTools/PC attempts to interpret it according to the international short date settings found in the Windows(r) control panel. For example, if the international date setting is DMY, the string 4-5-95 will be interpreted as 4-May-95. (NOTE: Due to a bug in the Microsoft Access date conversion functions, the YMD format is not supported in this version).

Action: Check your Windows(r) date settings for the correct format to enter numeric date values. If you still experience problems, use a non-numeric date value (i.e. 4-May-95).

L18

Applies to: **ESTDATE can not be later than validation date.**

Severity: Error

Cause: The value of the ESTDATE field is greater than your system's date.

Action: Verify that the date settings in your system are up to date. If they are, correct the value of the ESTDATE field.

L19

Applies to: **EXCCODE is not a valid code.**

Severity: Error

Cause: The EXCCODE code you have entered was not found in the valid value list EXC

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

L22

Applies to: **LOCDESC can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

L23

Applies to: **LOCID can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

L24

Applies to: **LOCID can not contain spaces.**

Severity: Error

Cause: The LOCID field cannot contain embedded or leading spaces.

Action: Enter a correct value for the LOCID field.

L28

Applies to: **LTCCODE is not a valid code.**

Severity: Error

Cause: The LTCCODE code you have entered was not found in the valid value list LTC

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

L29

Applies to: **NCOORD is not a number.**

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

L30

Applies to: **NCOORD must be greater than zero.**

Severity: Error

Cause: The value of the NCOORD field must be a positive number.

Action: Enter a correct value for the NCOORD field.

L31

Applies to: **Numeric value too large. Max value is 99999999.99**

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field;
99999999.99

Action: Verify the accuracy of your entry and correct the data

L32

Applies to: **BHDIAM cannot be null for this LTCCODE**

Severity: Error

Cause: The BHDIAM field is empty. This is an error for LDI records where the LTCCODE is set to BH, WL, PR or PH.

Action: Verify the value of the BHDIAM and LTCCODE fields. Correct as appropriate.

L33

Applies to: **LTCCODE requires that BHDIAM must be greater than zero.**

Severity: Error

Cause: The value entered in the BHDIAM field is not a positive number. This is an error when the LTCCODE is set to BH, WL, PR or PH.

Action: Verify the value of the BHDIAM and LTCCODE fields. Correct as appropriate.

L34

Applies to: **LTCCODE requires that CMCCODE can not be 'NA'.**

Severity: Error

Cause: The value NA is not appropriate for the CMCCODE field at locations where the LTCCODE field is set to BH, TE, TP, PH, WL or PR.

Action: Verify the value of the CMCCODE and LTCCODE fields. Correct as appropriate.

L36

Applies to: **DEPTH cannot be null for this LTCCODE.**

Severity: Error

Cause: The DEPTH field is may not be blank when the LTCCODE is set to BH, TP, WL, PH or PR.

Action: Verify the value of the DEPTH and LTCCODE fields. Correct as appropriate.

L38

Applies to: **DEPTH must be greater than zero.**

Severity: Error

Cause: The value entered in the DEPTH field is not a positive number.

Action: Verify the value of the DEPTH field.

L39

Applies to: **LTCCODE requires that DRLCODE can not be 'UNK' or 'NA'.**

Severity: Error

Cause: The values UNK and NA are not appropriate for the DRLCODE field at locations where the LTCCODE field is set to BH, WL, PR or PH.

Action: Verify the value of the DRLCODE and LTCCODE fields. Correct as appropriate.

L42

Applies to: **ECOORD can not be null when LTCCODE is 'WL'.**

Severity: Error

Cause: The ECOORD field is empty. This is incorrect for locations where LTCCODE is set to WL.

Action: Verify the value of the ECOORD and LTCCODE fields. Correct as appropriate.

L43

Applies to: **LTCCODE requires NCOORD data.**

Severity: Error

Cause: The NCOORD field is empty. This is incorrect for locations where the value of the LTCCODE is set to WL.

Action: Enter a correct value for the NCOORD field.

L44

Applies to: **EXCCODE can not be UNK or NA when LTCCODE is 'TE' or 'TP'.**

Severity: Error

Cause: The values UNK and NA are not appropriate for the EXCCODE field at locations where the LTCCODE is set to TE or TP.

Action: Verify the value of the EXCCODE and LTCCODE fields. Correct as appropriate.

L45

Applies to: **EXCCODEs should usually be 'UNK' or 'NA' for LTCCODES other than 'TE', 'TP' or 'CH'.**

Severity: Warning

Cause: The value NA should be used at locations where excavations have not occurred, i.e.; LTCCODE not equal to TE, CH or TP.

Action: Verify the value of the EXCCODE and LTCCODE fields. Correct as appropriate.

L51

Applies to: **ESCCODE should not normally be 'NA' or 'UNK'.**

Severity: Warning

Cause: The values NA and UNK are not appropriate for the ESCCODE field.

Action: Enter a correct value for the ESCCODE field.

L52

Applies to: **CMCCODE can not be 'UN'.**

Severity: Error

Cause: The value UN is not appropriate for the CMCCODE field.

Action: Enter a correct value for CMCCODE.

L53

Applies to: **Location description must be provided if drilling company code is UNK.**

Severity: Error

Cause: The LOCDESC field is empty. This is incorrect if the DRLCODE is set to UNK.

Action: Verify the value of both fields. Correct as appropriate.

L54

Applies to: **EXCCODE can not be 'UNK'.**

Severity: Error

Cause: The value UNK is not appropriate for the EXCCODE field.

Action: Enter a correct value for the EXCCODE field.

L55

Applies to: **LPRCODE must be 'I' or 'O'.**

Severity: Error

Cause: The only allowed values for LPRCODE in AFCEE contracts are I and O.

Action: Enter a correct value for the LPRCODE field.

L56

Applies to: **LTCCODE can not be 'UN', 'PZ' or 'NQ'.**

Severity: Error

Cause: The values UN, NQ and PZ are not appropriate for the LTCCODE field.

Action: Enter a correct value for the LTCCODE field.

L59

Applies to: **BHANGLE is not a number.**

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

L60

Applies to: **BHANGLE can not be greater than 90.**

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field; 90

Action: Verify the accuracy of your entry and correct the data

L61

Applies to: **BHAZIM is not a number.**

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

L62

Applies to: **BHAZIM can not be greater than 359.99.**

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field; 359.99

Action: Verify the accuracy of your entry and correct the data

L63

Applies to: **CRDMETH is not a valid code.**

Severity: Error

Cause: The CRDMETH code you have entered was not found in the valid value list CRD

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

L65

Applies to: **CRDUN is not a number.**

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

L66

Applies to: **CRDUN can not be greater than 100.**

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field; 100

Action: Verify the accuracy of your entry and correct the data

L68

Applies to: **ELEVMEETH is not a valid code.**

Severity: Error

Cause: The ELEVMEETH code you have entered was not found in the valid value list ELM

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

L69

Applies to: **ELEVUN is not a number.**

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

L70

Applies to: **ELEVUN can not be greater than 100.**

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field; 100

Action: Verify the accuracy of your entry and correct the data

L72

Applies to: **STPPROJ is not a valid code.**

Severity: Error

Cause: The STPPROJ code you have entered was not found in the valid value list STP

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

L73

Applies to: **STPZONE is not a valid code.**

Severity: Error

Cause: The STPZONE code you have entered was not found in the valid value list STZ

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

L74

Applies to: **UTMZONE is not a valid code.**

Severity: Error

Cause: The UTMZONE code you have entered was not found in the valid value list UTZ

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

L75

Applies to: **Coordinate type must be NA if coordinates are not provided.**

Severity: Error

Cause: Coordinate type must be NA if coordinates are not provided.

Action: Coordinate type must be NA if coordinates are not provided.

L76A

Applies to: **CRDUNITS must be 'FT' when coordinates are provided.**

Severity: Error

Cause: The only allowed value for the CRDUNITS field in AFCEE contracts is FT.

Action: Enter FT in the CRDUNITS field.

L76B

Applies to: **CRDUNITS must be 'FT' when coordinates are provided.**

Severity: Error

Cause: The only allowed value for the CRDUNITS field in AFCEE contracts is FT.

Action: Enter FT in the CRDUNITS field.

L77

Applies to: **ELEVUNITS must be 'FT' when ELEV is provided.**

Severity: Error

Cause: The only allowed value for the ELEVUNITS field in AFCEE contracts is FT.

Action: Enter FT in the ELEVUNITS.

L79

Applies to: **CMCCODE must be 'NA' when LTCCODE is 'SL' or 'SS'.**

Severity: Error

Cause: The CMCCODE field must be set to NA for locations where the LTCCODE field is set to SL or SS.

Action: Verify the value of the CMCCODE and LTCCODE fields. Correct as appropriate.

L80

Applies to: **DRLCODE must be 'NA' when LTCCODE is 'SL', 'SS', 'TE' or 'TP'.**

Severity: Error

Cause: The value UNK is not appropriate for the DRLCODE field at locations where the LTCCODE field is set to SL, SS, TE or TP.

Action: Verify the value of the DRLCODE and LTCCODE fields. Correct as appropriate.

L83

Applies to: **ELEV can not be null when LTCCODE is 'WL'.**

Severity: Error

Cause: The ELEV field is empty. This is incorrect for locations where LTCCODE is set to WL.

Action: Verify the value of the ELEV and LTCCODE fields. Correct as appropriate.

L85

Applies to: **ELFLAG is not a valid code.**

Severity: Error

Cause: The value of the indicated field did not match one of the valid values specified in that field's VVL.

Action: Correct the value so it matches one of the entries in the VVL or ask an ERPTOOLS/PC administrative user to add the new value to the VVL.

L86A

Applies to: **Coordinate type must be N27 or N83 when coordinates are provided.**

Severity: Error

Cause: Coordinate type must be N27 or N83 when coordinates are provided.

Action: Coordinate type must be N27 or N83 when coordinates are provided.

L86B

Applies to: **Coordinate type must be N27 or N83 when coordinates are provided.**

Severity: Error

Cause: Coordinate type must be N27 or N83 when coordinates are provided.

Action: Coordinate type must be N27 or N83 when coordinates are provided.

L90

Applies to: **CRDMETH must be NA when coordinates are not provided.**

Severity: Error

Cause: CRDMETH must be NA when coordinates are not provided

Action: CRDMETH must be NA when coordinates are not provided

L91A

Applies to: **CRDMETH can not be NA when coordinates are provided.**

Severity: Error

Cause: CRDMETH must not be NA when coordinates are provided

Action: Match the method of coordinate collection with a code from the VVL.

L91B

Applies to: **CRDMETH can not be NA when coordinates are provided.**

Severity: Error

Cause: CRDMETH must not be NA when coordinates are provided

Action: Match the method of coordinate collection with a code from the VVL.

L92

Applies to: **CRDUNITS must be 'NONE' when coordinates are not provided.**

Severity: Error

Cause: CRDUNITS must be 'NONE' when coordinates are not provided.

Action: Enter NONE in the CRDUNITS field.

L93

Applies to: **ELEVUNITS must be 'NONE' when ELEV is not provided.**

Severity: Error

Cause: ELEVUNITS must be 'NONE' when ELEV is not provided.

Action: Enter NONE in the ELEVUNITS field.

L94

Applies to: **ELEVMETHOD must be NA when ELEV is not provided.**

Severity: Error

Cause: ELEVMETHOD must be NA when ELEV is not provided

Action: Enter NA in the ELEVMETHOD field.

L95

Applies to: **ELEVMETHOD can not be NA when ELEV is provided.**

Severity: Error

Cause: ELEVMETHOD must not be NA when ELEV is provided

Action: Enter a code reflecting the method of elevation determination.

L96

Applies to: **AFIID does not match submission AFIID.**

Severity: Error

Cause: The AFIID field in the current record does not match the project AFIID.

Action: Verify that the correct file is being imported. If it is, correct the AFIID of the erroneous record to match the project AFIID.

L97

Applies to: **STPZONE can not be Q**

Severity: Error

Cause: The value Q is not appropriate for the STPZONE field.

Action: Select the correct value from the AFCEE provided VVL.

L98

Applies to: **STPPROJ can not be Q**

Severity: Error

Cause: The value Q is not appropriate for the STPPROJ field.

Action: Select the correct value from the AFCEE provided VVL.

L99

Applies to: **UTMZONE can not be Q**

Severity: Error

Cause: The value Q is not appropriate for the UTMZONE field.

Action: Select the correct value from the AFCEE provided VVL.

LO01

Applies to: **AFIID does not match submission AFIID.**

Severity: Error

Cause: The AFIID field in the current record does not match the project AFIID.

Action: Verify that the correct file is being imported. If it is, correct the AFIID of the erroneous record to match the project AFIID.

LO02

Applies to: **LOCID can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

LO04

Applies to: **OUCODE can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

LS01

Applies to: **AFIID does not match submission AFIID.**

Severity: Error

Cause: The AFIID field in the current record does not match the project AFIID.

Action: Verify that the correct file is being imported. If it is, correct the AFIID of the erroneous record to match the project AFIID.

LS02

Applies to: **LOCID can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

LS03

Applies to: **RSID can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

LS04

Applies to: **RSSTAGE can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

LT01

Applies to: **AFIID does not match submission AFIID.**

Severity: Error

Cause: The AFIID field in the current record does not match the project AFIID.

Action: Verify that the correct file is being imported. If it is, correct the AFIID of the erroneous record to match the project AFIID.

LT02

Applies to: **LOCID can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

LT03

Applies to: **RSID can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

LT04

Applies to: **RSSTAGE can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

LT05

Applies to: **RTID can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

LT06

Applies to: **RTTYPE can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

M**MR01**

Applies to: **AFIID does not match submission AFIID.**

Severity: Error

Cause: The AFIID field in the current record does not match the project AFIID.

Action: Verify that the correct file is being imported. If it is, correct the AFIID of the erroneous record to match the project AFIID.

MR02

Applies to: **MAPRID can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

MR03

Applies to: **BMEAST is not a number.**

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

MR04

Applies to: **Numeric value too large. Max value is 99999999.99**

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field;
99999999.99

Action: Verify the accuracy of your entry and correct the data

MR05

Applies to: **BMELEV is not a number.**

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

MR06

Applies to: **Numeric value too large. Max value is 99999.99**

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field; 99999.99

Action: Verify the accuracy of your entry and correct the data

MR07

Applies to: **BMNORTH is not a number.**

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

MR08

Applies to: **Numeric value too large. Max value is 99999999.99**

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field;
99999999.99

Action: Verify the accuracy of your entry and correct the data

MR09

Applies to: **LLEAST is not a number.**

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

MR10

Applies to: **Numeric value too large. Max value is 99999999**

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field; 99999999

Action: Verify the accuracy of your entry and correct the data

MR11

Applies to: **LLNORTH is not a number.**

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

MR12

Applies to: **Numeric value too large. Max value is 99999999**

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field; 99999999

Action: Verify the accuracy of your entry and correct the data

MR13

Applies to: **MCCCODE is not a valid code.**

Severity: Error

Cause: The MCCCODE code you have entered was not found in the valid value list MCC

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

MR14

Applies to: **MAPSCALE is not a number.**

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

MR15

Applies to: **Numeric value too large. Max value is 9999**

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field; 9999

Action: Verify the accuracy of your entry and correct the data

MR16

Applies to: **MTCCODE is not a valid code.**

Severity: Error

Cause: The MTCCODE code you have entered was not found in the valid value list MTC

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

MR17

Applies to: **MAPCODE is not a valid code.**

Severity: Error

Cause: The MAPCODE code you have entered was not found in the valid value list MAP

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

MR18

Applies to: **UREAST is not a number.**

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

MR19

Applies to: **Numeric value too large. Max value is 99999999**

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field; 99999999

Action: Verify the accuracy of your entry and correct the data

MR20

Applies to: **URNORTH is not a number.**

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

MR21

Applies to: **Numeric value too large. Max value is 99999999**

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field; 99999999

Action: Verify the accuracy of your entry and correct the data

MR22

Applies to: **MAPCODE can not be Q**

Severity: Error

Cause: The value Q is not appropriate for the MAPCODE field.

Action: Select the correct value from the AFCEE provided VVL.

MR23

Applies to: **MTCCODE can not be Q**

Severity: Error

Cause: The value Q is not appropriate for the MTCCODE field.

Action: Select the correct value from the AFCEE provided VVL.

MR24

Applies to: **MCCCODE can not be Q**

Severity: Error

Cause: The value Q is not appropriate for the MCCCODE field.

Action: Select the correct value from the AFCEE provided VVL.

N**NOP**

Applies to: **No parent record found.**

Severity: Error

Cause: The parent of the current record could not be found.

Action: Examine the parent key fields in the child table and determine what parent record should be used. Either make sure the key fields match those of an already existing parent record or create a new parent record.

O**OC01**

Applies to: **AFIID does not match submission AFIID.**

Severity: Error

Cause: The AFIID field in the current record does not match the project AFIID.

Action: Verify that the correct file is being imported. If it is, correct the AFIID of the erroneous record to match the project AFIID.

OC02

Applies to: **GROUPCODE is not a valid code.**

Severity: Error

Cause: The GROUPCODE code you have entered was not found in the valid value list ANG

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

OC03

Applies to: **MATRIX is not a valid code.**

Severity: Error

Cause: The MATRIX code you have entered was not found in the valid value list MTY

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

OC04

Applies to: **OUCODE can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

OU01

Applies to: **AFIID does not match submission AFIID.**

Severity: Error

Cause: The AFIID field in the current record does not match the project AFIID.

Action: Verify that the correct file is being imported. If it is, correct the AFIID of the erroneous record to match the project AFIID.

OU02

Applies to: **OUCODE can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

OU03

Applies to: **OUNAME can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

OU05

Applies to: **OUDESC can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

OU06

Applies to: **OUDESC must contain at least 25 characters.**

Severity: Error

Cause: The value of the OUDESC field is less than 25 characters long.

Action: Enter a meaningful description for the OUDESC field that is at least 25 characters long.

OW01

Applies to: **AFIID does not match submission AFIID.**

Severity: Error

Cause: The AFIID field in the current record does not match the project AFIID.

Action: Verify that the correct file is being imported. If it is, correct the AFIID of the erroneous record to match the project AFIID.

OW02

Applies to: **LOCID can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

OW03

Applies to: **OBS_LOCATION can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

OW04

Applies to: **LOGDATE can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

OW05

Applies to: **LOGDATE is not in required format.**

Severity: Error

Cause: The value entered in the indicated field cannot be interpreted as a valid date. When you enter an all-numeric date value, ERPTools/PC attempts to interpret it according to the international short date settings found in the Windows(r) control panel. For example, if the international date setting is DMY, the string 4-5-95 will be interpreted as 4-May-95. (NOTE: Due to a bug in the Microsoft Access date conversion functions, the YMD format is not supported in this version).

Action: Check your Windows(r) date settings for the correct format to enter numeric date values. If you still experience problems, use a non-numeric date value (i.e. 4-May-95).

OW07

Applies to: **LOGTIME can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

OW08

Applies to: **LOGTIME is not in required format.**

Severity: Error

Cause: The value entered in the indicated field cannot be interpreted as a valid time.

Action: Enter a four digit number between 0000 and 2359.

OW09

Applies to: **MEASDATE can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

OW10

Applies to: **MEASDATE is not in required format.**

Severity: Error

Cause: The value entered in the indicated field cannot be interpreted as a valid date. When you enter an all-numeric date value, ERPTools/PC attempts to interpret it according to the international short date settings found in the Windows(r) control panel. For example, if the international date setting is DMY, the string 4-5-95 will be interpreted as 4-May-95. (NOTE: Due to a bug in the Microsoft Access date conversion functions, the YMD format is not supported in this version).

Action: Check your Windows(r) date settings for the correct format to enter numeric date values. If you still experience problems, use a non-numeric date value (i.e. 4-May-95).

OW11

Applies to: **MEASDATE can not be later than validation date.**

Severity: Error

Cause: The value in the MEASDATE field is greater than your system's date.

Action: Verify that the date settings in your system are up to date. If they are, correct the value of the MEASDATE field to reflect the actual date the analysis was performed.

OW12

Applies to: **MEASTIME can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

OW13

Applies to: **MEASTIME is not in required format.**

Severity: Error

Cause: The value entered in the indicated field cannot be interpreted as a valid time.

Action: Enter a four digit number between 0000 and 2359.

OW14

Applies to: **TIDEPth can not be greater than 9,999,999.99.**

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

OW15

Applies to: **Numeric value too large. Max value is 9999999.99**

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field; 9999999.99

Action: Verify the accuracy of your entry and correct the data

OW16

Applies to: **FTCODE is not a valid value.**

Severity: Error

Cause: The FTCODE code you have entered was not found in the valid value list FTC

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

OW17

Applies to: **WTCCODE is not a valid code.**

Severity: Error

Cause: The WTCCODE code you have entered was not found in the valid value list WTC

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

P**PI02**

Applies to: **LOCID can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

PI04

Applies to: **BEGDATE can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

PI05

Applies to: **BEGDATE is not in required format.**

Severity: Error

Cause: The value entered in the indicated field cannot be interpreted as a valid date. When you enter an all-numeric date value, ERPTools/PC attempts to interpret it according to the international short date settings found in the Windows(r) control panel. For example, if the international date setting is DMY, the string 45-95 will be interpreted as 4-May-95. (NOTE: Due to a bug in the Microsoft Access date conversion functions, the YMD format is not supported in this version).

Action: Check your Windows(r) date settings for the correct format to enter numeric date values. If you still experience problems, use a non-numeric date value (i.e. 4-May-95).

PI06

Applies to: **ENDDATE can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

PI07

Applies to: **ENDDATE is not in required format.**

Severity: Error

Cause: The value entered in the indicated field cannot be interpreted as a valid date. When you enter an all-numeric date value, ERPTools/PC attempts to interpret it according to the international short date settings found in the Windows(r) control panel. For example, if the international date setting is DMY, the string 4-5-95 will be interpreted as 4-May-95. (NOTE: Due to a bug in the Microsoft Access date conversion functions, the YMD format is not supported in this version).

Action: Check your Windows(r) date settings for the correct format to enter numeric date values. If you still experience problems, use a non-numeric date value (i.e. 4-May-95).

PI08

Applies to: **BEGDEPTH can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

PI09

Applies to: **BEGDEPTH is not a number.**

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

PI10

Applies to: **Numeric value too large. Max value is 9999999.99**

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field;
9999999.99

Action: Verify the accuracy of your entry and correct the data

PI11

Applies to: **ENDDEPTH can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

PI12

Applies to: **ENDDEPTH is not a number.**

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

PI13

Applies to: **Numeric value too large. Max value is 9999999.99**

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field;
9999999.99

Action: Verify the accuracy of your entry and correct the data

PI14

Applies to: **LOGCODE is not a valid code.**

Severity: Error

Cause: The LOGCODE code you have entered was not found in the valid value list LOG

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in
finding the correct valid value code

PI15

Applies to: **PUMPDEPTH can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

PI16

Applies to: **PUMPDEPTH is not a number.**

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

PI17

Applies to: **Numeric value too large. Max value is 9999999.99**

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field;
9999999.99

Action: Verify the accuracy of your entry and correct the data

PI18

Applies to: **PUMPINGRATE can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

PI19

Applies to: **PUMPINGRATE is not a number.**

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

PI20

Applies to: **Numeric value too large. Max value is 99999.9**

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field; 99999.9

Action: Verify the accuracy of your entry and correct the data

PI21

Applies to: **UNITS is not a valid code.**

Severity: Error

Cause: The UNITS code you have entered was not found in the valid value list UTM

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

PI22

Applies to: **WTCCODE is not a valid code.**

Severity: Error

Cause: The WTCCODE code you have entered was not found in the valid value list WTC

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

PI25

Applies to: **AFIID does not match submission AFIID.**

Severity: Error

Cause: The AFIID field in the current record does not match the project AFIID.

Action: Verify that the correct file is being imported. If it is, correct the AFIID of the erroneous record to match the project AFIID.

PI26

Applies to: **BEGTIME can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

PI27

Applies to: **BEGTIME is not in required format.**

Severity: Error

Cause: The value entered in the indicated field cannot be interpreted as a valid time.

Action: Enter a four digit number between 0000 and 2359.

PI28

Applies to: **ENDTIME can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

PI29

Applies to: **ENDTIME is not in required format.**

Severity: Error

Cause: The value entered in the indicated field cannot be interpreted as a valid time.

Action: Enter a four digit number between 0000 and 2359.

PR01

Applies to: **AFIID does not match submission AFIID.**

Severity: Error

Cause: The AFIID field in the current record does not match the project AFIID.

Action: Verify that the correct file is being imported. If it is, correct the AFIID of the erroneous record to match the project AFIID.

PR02

Applies to: **LOCID can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

PR03

Applies to: **LOGDATE can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

PR04

Applies to: **LOGDATE is not in required format.**

Severity: Error

Cause: The value entered in the indicated field cannot be interpreted as a valid date. When you enter an all-numeric date value, ERPTools/PC attempts to interpret it according to the international short date settings found in the Windows(r) control panel. For example, if the international date setting is DMY, the string 4-5-95 will be interpreted as 4-May-95. (NOTE: Due to a bug in the Microsoft Access date conversion functions, the YMD format is not supported in this version).

Action: Check your Windows(r) date settings for the correct format to enter numeric date values. If you still experience problems, use a non-numeric date value (i.e. 4-May-95).

PR06

Applies to: **LOGTIME can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

PR07

Applies to: **LOGTIME is not in required format.**

Severity: Error

Cause: The value entered in the indicated field cannot be interpreted as a valid time.

Action: Enter a four digit number between 0000 and 2359.

PR08

Applies to: **STARTDATE can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

PR09

Applies to: **STARTDATE is not in required format.**

Severity: Error

Cause: The value entered in the indicated field cannot be interpreted as a valid date. When you enter an all-numeric date value, ERPTools/PC attempts to interpret it according to the international short date settings found in the Windows(r) control panel. For example, if the international date setting is DMY, the string 45-95 will be interpreted as 4-May-95. (NOTE: Due to a bug in the Microsoft Access date conversion functions, the YMD format is not supported in this version).

Action: Check your Windows(r) date settings for the correct format to enter numeric date values. If you still experience problems, use a non-numeric date value (i.e. 4-May-95).

PR10

Applies to: **STARTDATE can not be later than validation date.**

Severity: Error

Cause: The value in the STARTDATE field is greater than your system's date.

Action: Verify that the date settings in your system are up to date. If they are, correct the value of the STARTDATE field to reflect the actual date the analysis was performed.

PR11

Applies to: **STARTTIME can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

PR12

Applies to: **STARTTIME is not in required format.**

Severity: Error

Cause: The value entered in the indicated field cannot be interpreted as a valid time.

Action: Enter a four digit number between 0000 and 2359.

PR13

Applies to: **ENDDATE can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

PR14

Applies to: **ENDDATE is not in required format.**

Severity: Error

Cause: The value entered in the indicated field cannot be interpreted as a valid date. When you enter an all-numeric date value, ERPTools/PC attempts to interpret it according to the international short date settings found in the Windows(r) control panel. For example, if the international date setting is DMY, the string 4-5-95 will be interpreted as 4-May-95. (NOTE: Due to a bug in the Microsoft Access date conversion functions, the YMD format is not supported in this version).

Action: Check your Windows(r) date settings for the correct format to enter numeric date values. If you still experience problems, use a non-numeric date value (i.e. 4-May-95).

PR15

Applies to: **ENDDATE can not be later than validation date.**

Severity: Error

Cause: The value of the ENDDATE field is greater than your system's date.

Action: Verify that the date settings in your system are up to date. If they are, correct the value of the ENDDATE field.

PR16

Applies to: **ENDTIME can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

PR17

Applies to: **ENDTIME is not in required format.**

Severity: Error

Cause: The value entered in the indicated field cannot be interpreted as a valid time.

Action: Enter a four digit number between 0000 and 2359.

PR18

Applies to: **PUMPRATE can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

PR19

Applies to: **PUMPRATE is not a number.**

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

PR20

Applies to: **Numeric value too large. Max value is 99999.99**

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field; 99999.99

Action: Verify the accuracy of your entry and correct the data

PR21

Applies to: **UNITS is not a valid code.**

Severity: Error

Cause: The UNITS code you have entered was not found in the valid value list UTM

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

Q**R****R01**

Applies to: **EXPECTED is not a number.**

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

R02

Applies to: **Numeric value too large. Max value is 9999999999.9999**

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field;
9999999999.9999

Action: Verify the accuracy of your entry and correct the data

R03

Applies to: **MDL is not a number.**

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

R04

Applies to: **Numeric value too large. Max value is 9999999999.9999**

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field;
9999999999.9999

Action: Verify the accuracy of your entry and correct the data

R06

Applies to: **PARLABEL is not a valid code.**

Severity: Error

Cause: The PARLABEL code you have entered was not found in the valid value list PAR

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

R07

Applies to: **PARUN is not a number.**

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

R08

Applies to: **Numeric value too large. Max value is 99999999.9999**

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field;
99999999.9999

Action: Verify the accuracy of your entry and correct the data

R10

Applies to: **PARVQ is not a valid code.**

Severity: Error

Cause: The PARVQ code you have entered was not found in the valid value list PVQ

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

R11

Applies to: **PARVAL can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

R12

Applies to: **PARVAL is not a number.**

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

R13

Applies to: **Numeric value too large. Max value is 999999999.9999**

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field;
999999999.9999

Action: Verify the accuracy of your entry and correct the data

R133

Applies to: **LOCID can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

R135

Applies to: **MATRIX can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

R138

Applies to: **SACODE can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

R142

Applies to: **LOGDATE can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

R145

Applies to: **LOGTIME can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

R147

Applies to: **SBD can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

R15

Applies to: **UNITS is not a valid code.**

Severity: Error

Cause: The UNITS code you have entered was not found in the valid value list UTM

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

R152

Applies to: **SED can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

R158

Applies to: **ANMCODE can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

R16

Applies to: **PARUN must be null when PRCCODE is not 'RN'.**

Severity: Error

Cause: The PARUN field is not empty. This is incorrect for all result records except those where the value of the PRCCODE field is set to RN indicating radionuclide data.

Action: Verify the value of the PARUN and PRCCODE fields. Correct as appropriate.

R161

Applies to: **EXMCODE can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

R164

Applies to: **LABCODE can not be null.**

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

R167

Applies to: **RUN_NUMBER can not be null.**

Severity: Error

Cause: RUN_NUMBER is a required field.

Action: Enter a RUN_NUMBER between 1 and 99

R171

Applies to: **VQ_1C is not a valid code.**

Severity: Error

Cause: The VQ_1C code you have entered was not found in the valid value list PVQ()

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

R172

Applies to: **VQ_CONFIRM is not a valid code.**

Severity: Error

Cause: The VQ_CONFIRM code you have entered was not found in the valid value list PVQ()

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

R173

Applies to: **PRCCODE is not a valid code.**

Severity: Error

Cause: The PRCCODE code you have entered was not found in the valid value list PRC

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

R17A

Applies to: **MDL must be null for surrogate analytes.**

Severity: Error

Cause: The MDL field is not empty. This is incorrect for surrogate result records.

Action: Verify the value of the MDL and PRCCODE fields. Correct as appropriate.

R17B

Applies to: **RL must be null for surrogate analytes.**

Severity: Error

Cause: The RL field is not empty. This is incorrect for surrogate result records.

Action: Verify the values of the RL and PRCCODE fields. Correct as appropriate.

R17C

Applies to: **EXPECTED can not be null for surrogate analytes.**

Severity: Error

Cause: The EXPECTED field is empty. This is incorrect for surrogate result records.

Action: Verify the value of the EXPECTED and PRCCODE fields. Correct as appropriate.

R18A

Applies to: **EXPECTED and PARVAL must be zero for surrogate records.**

Severity: Error

Cause: Surrogate analytes reported with an expected value of 0 should be coded and none detected, i.e.: PARVAL = 0 and PARVQ = ND. The value of the PARVAL field is not 0.

Action: Verify the value of the PARVAL, PRCCODE and EXPECTED fields. Correct as appropriate.

R18B

Applies to: **EXPECTED must be zero and PARVQ must be 'ND' for surrogate records.**

Severity: Error

Cause: Surrogate analytes reported with an expected value of 0 should be coded and none detected, i.e.: parval = 0 and parvq = ND. The value of the PARVAL field is not 0.

Action: Verify the value of the PARVQ, PRCCODE and EXPECTED fields. Correct as appropriate.

R19

Applies to: **PRCCODE is 'STD' and UNITS is 'PERCENT' and EXPECTED must be '0' or '100'.**

Severity: Error

Cause: The value of the EXPECTED field is not appropriate for result records where PRCCODE is set to STD and UNITS is set to PERCENT.

Action: Verify the value of the EXPECTED, PRCCODE and UNITS fields. Correct as appropriate.

R20

Applies to: **EXPECTED must be null for non-surrogates when SACODE is 'N'.**

Severity: Error

Cause: The EXPECTED field is not empty. This is incorrect for result records where PRCCODE is not STD and the SACODE is N.

Action: Verify the value of the EXPECTED and PRCCODE fields. Also verify the value of the SACODE field in the parent record. Correct as appropriate.

R21

Applies to: **EXPECTED can not be null for SACODE other than 'N'.**

Severity: Error

Cause: The EXPECTED field is empty. This is incorrect for result records where the SACODE is not N.

Action: Verify the value of the EXPECTED field. Also verify the value of the SACODE field in the parent record. Correct as appropriate.

R22

Applies to: **EXPECTED must be 0 for non-surrogate analytes when the SACODE represents a blank.**

Severity: Error

Cause: The value in the EXPECTED field is not appropriate for result records where the value of the PRCCODE field is set to anything but STD and the value of the SACODE represents a blank, *B.

Action: Verify the value of the EXPECTED and PRCCODE fields. Also verify the value of the SACODE field in the parent sample record. Correct as appropriate.

R23A

Applies to: **MDL must be null for this PRCCODE.**

Severity: Error

Cause: The MDL field is not empty. This is incorrect for result records where the value of the PRCCODE field is set to MI, PM, BAC or STD.

Action: Verify the value of the MDL and PRCCODE fields. Correct as appropriate.

R23B

Applies to: **RL must be null for this PRCCODE.**

Severity: Error

Cause: The RL field is not empty. This is incorrect for result records where the value of the PRCCODE is set to MI, PM, BAC or STD.

Action: Verify the value of the RL and PRCCODE fields. Correct as appropriate.

R24A

Applies to: **MDL must be null when UNITS is 'PERCENT' or 'NONE'.**

Severity: Error

Cause: The MDL field is not empty. This is incorrect for result records where the value of the UNITS field is set to PERCENT or NONE.

Action: Verify the value of the MDL and UNITS fields. Correct as appropriate.

R24B

Applies to: **RL must be null when UNITS is 'PERCENT' or 'NONE'.**

Severity: Error

Cause: The RL field is not empty. This is incorrect for result records where the UNITS field is set to PERCENT or NONE.

Action: Verify the value of the RL and UNITS fields. Correct as appropriate.

R25A

Applies to: **MDL can not be null for tentatively identified compounds with this PRCCODE**

Severity: Error

Cause: The MDL field is empty. This is incorrect for result records where the PRCCODE is set to anything but STD, MI, PM or BAC.

Action: Verify the value of the MDL and PRCCODE fields. Correct as appropriate.

R25B

Applies to: **RL can not be null for tentatively identified compounds with this PRCCODE**

Severity: Error

Cause: The RL field is empty. This is incorrect for result records where the PRCCODE is set to anything but STD, MI, PM or BAC.

Action: Verify the value of the RL and PRCCODE fields. Correct as appropriate.

R26

Applies to: UNITS are 'PERCENT' the EXPECTED must be '0' or '100' when PRCCODE is not 'MI', 'PM', 'BAC', or 'STD'.

Severity: Error

Cause: The value of the EXPECTED field is not appropriate for result records where UNITS is set to PERCENT and the PRCCODE is not MI, PM, BAC or STD. EXPECTED should be 0 or 100.

Action: Verify the value of the UNITS and EXPECTED fields. Also, verify the value of the SACODE field in the parent sample record. Correct as appropriate.

R27A

Applies to: MDL must be null when PARVQ is 'TI'.

Severity: Error

Cause: The MDL field is not empty. This is incorrect for result records where the value of the PARVQ field is set to TI.

Action: Verify the value of the MDL and PARVQ fields. Correct as appropriate.

R27B

Applies to: RL must be null when PARVQ is 'TI'.

Severity: Error

Cause: The RL field is not empty. This is incorrect for result records where the value of the PARVQ field is set to TI.

Action: Verify the value of the RL and PARVQ fields. Correct as appropriate.

R27C

Applies to: PRCCODE must be 'HC' or 'ORG' when PARVQ is 'TI'.

Severity: Error

Cause: The analyte in this record should not have the value TI in the PARVQ field. Only analytes with the PRCCODE HC or ORG may be reported as TICs.

Action: Verify that the values of the PARLABEL and PARVQ fields are correct. If they are, contact the Help Desk for an appropriate PARVQ.

R28

Applies to: Normal analytes may not be reported in the units 'PERCENT' for this SACCODE.

Severity: Error

Cause: The value PERCENT is not appropriate for the UNITS field in result records where PRCCODE is not MI, PM, BAC or STD and SACODE is not MS, SD, BS, BD, RM or KD.

Action: Verify that the values of the PRCCODE, UNITS and SACODE fields. Correct as appropriate.

R29A

Applies to: PARVAL and PARVQ must be provided for confirmatory results.

Severity: Error

Cause: The VAL_1C field is not empty. This is an error if the VQ_1C field is empty.

Action: Verify the value of both fields. Correct as appropriate.

R29B

Applies to: PARVAL and PARVQ must be provided for confirmatory results.

Severity: Error

Cause: The VAL_1C field is empty. This is incorrect if the VQ_1C column is not empty.

Action: Verify the value of both fields. Correct as appropriate.

R30A

Applies to: PARVAL and PARVQ must be provided for confirmatory results.

Severity: Error

Cause: There is a value in the VAL_CONFIRM column, but the VQ_CONFIRM column is empty.

Action: Verify the value of the VQ_CONFIRM and VAL_CONFIRM columns. Correct as appropriate.

R30B

Applies to: PARVAL and PARVQ must be provided for confirmatory results.

Severity: Error

Cause: There is a value in the VQ_CONFIRM column, but the VAL_CONFIRM column is empty.

Action: Verify the value of the VQ_CONFIRM and VAL_CONFIRM columns. Correct as appropriate.

R31

Applies to: VAL_CONFIRM invalid when VAL_1C not provided.

Severity: Error

Cause: There is a value in the VAL_CONFIRM column, but the VAL_1C column is empty.

Action: Verify the value of the VAL_1C and VAL_CONFIRM columns. Correct as appropriate.

R32

Applies to: PARVAL must be 0 and PARVQ must be 'ND' when analytes were not detected.

Severity: Error

Cause: The value of the PARVQ must be set to ND if the value of the PARVAL field is set to 0 and vice versa.

Action: Verify the value of both fields. Correct as appropriate.

R33

Applies to: PARVAL must be 0 and PARVQ must be 'ND' when analytes were not detected.

Severity: Error

Cause: The value of the PARVQ must be set to ND if the value of the PARVAL field is set to 0 and vice versa.

Action: Verify the value of both fields. Correct as appropriate.

R34

Applies to: PARVALs reported between the MDL and RL must be flagged with the PARVQ 'TR'.

Severity: Error

Cause: The value of the PARVAL field must fall between the values of the MDL and RL fields for all result records reported where the value of the PARVQ field is set to TR.

Action: Verify the value of the PARVAL, MDL, RL and PARVQ fields.

R35

Applies to: PARVAL can not be less than MDL.

Severity: Error

Cause: The value of the PARVAL field is less than the value of the MDL field. Results may not be reported at levels less than the MDL.

Action: Verify the value of both fields. Correct as appropriate.

R38

Applies to: UNITS must be 'PERCENT' when PARLABEL is 'MOIST' or 'SOLID'.

Severity: Error

Cause: The value of the UNITS field must be set to PERCENT for result records where the value of the PARLABEL field is set to MOIST or SOLID.

Action: Verify the value of the UNITS and PARLABEL fields. Correct as appropriate.

R42

Applies to: PRECISION can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

R43

Applies to: PRECISION is not a number.

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

R44

Applies to: PRECISION must be between 0 and 4.

Severity: Error

Cause: The value entered in the PRECISION field must be an integer between 0 and 4.

Action: Correct the value entered in the PRECISION field.

R45

Applies to: SAMPNO can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

R46

Applies to: LCHMETH can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

R47

Applies to: EVPREC is not a number.

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

R48

Applies to: EVPREC must be between 0 and 4.

Severity: Error

Cause: The value entered in the EVPREC field must be an integer between 0 and 4.

Action: Correct the value entered in the EVPREC field.

R49

Applies to: RL is not a number.

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

R50

Applies to: Numeric value too large. Max value is 9999999999.9999

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field;
9999999999.9999

Action: Verify the accuracy of your entry and correct the data

R51

Applies to: FCVALPREC is not a number.

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

R52

Applies to: FCVALPREC must be between 0 and 4.

Severity: Error

Cause: The value entered in the FCVALPREC field must be an integer between 0 and 4.

Action: Correct the value entered in the FCVALPREC field.

R53

Applies to: CNFVALPREC is not a number.

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

R54

Applies to: CNFVALPREC must be between 0 and 4.

Severity: Error

Cause: The value entered in the CNFVALPREC column must be an integer between 0 and 4.

Action: Correct the value entered in the CNFVALPREC field.

R55

Applies to: DILUTION is not a number.

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

R56

Applies to: Numeric value too large. Max value is 99999999.9999

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field;
99999999.9999

Action: Verify the accuracy of your entry and correct the data

R57

Applies to: DQTYPE is not a valid code.

Severity: Error

Cause: The DQTYPE code you have entered was not found in the valid value list DQT()

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in
finding the correct valid value code

R58

Applies to: QAPPFLAGS is not a valid code.

Severity: Error

Cause: The QAPPFLAGS code you have entered was not found in the valid value list QAP()

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in
finding the correct valid value code

R59

Applies to: The PARVQ '%' may not be used for this version of the DLH.

Severity: Error

Cause: The value of the PARVQ field is %. This is incorrect for result records where the
value of the PRCCODE is set to STD.

Action: Verify the value of the PARVQ and PRCCODE fields. Correct as appropriate.

R63

Applies to: MDL can not be zero.

Severity: Error

Cause: The value of the MDL field is set to 0.

Action: Enter a correct value for the MDL field.

R64

Applies to: RL can not be zero.

Severity: Error

Cause: The value of the PQL field is set to 0.

Action: Enter a correct value for the PQL field.

R65

Applies to: MDL must be less than or equal to RL.

Severity: Error

Cause: The value of the MDL field is greater than the value of the RL field.

Action: Verify the value of both fields. Correct as appropriate.

R66

Applies to: QAPP flag can not be 'J' when PARVAL is less than RL.

Severity: Error

Cause: The value J is not appropriate for the QAPPFLAGS field when the value of the PARVAL field is less than the value of the RL field.

Action: Verify the value of the QAPPFLAGS, PARVAL and RL fields. Correct as appropriate.

R67

Applies to: PARVQ must equal 'TI' when QAPPFLAGS is equal to 'T'.

Severity: Error

Cause: The value T is not appropriate for the QAPPFLAGS field unless the value of the PARVQ field is set to TI.

Action: Verify the value of the QAPPFLAGS and PARVQ fields. Correct as appropriate.

R68A

Applies to: QAPP flag can not be 'F' if PARVAL is less than or equal to MDL.

Severity: Error

Cause: The value F is not appropriate for the QAPPFLAGS field when the value of the PARVAL field is less than or equal to the value of the MDL field.

Action: Verify the value of the QAPPFLAGS, PARVAL and MDL fields. Correct as appropriate.

R68B

Applies to: QAPP flag can not be 'F' if PARVAL is greater than or equal to RL.

Severity: Error

Cause: The value F is not appropriate for the QAPPFLAGS field when the value of the PARVAL field is greater than or equal to the value of the RL field.

Action: Verify the value of the QAPPFLAGS, PARVAL and RL fields. Correct as appropriate.

R69

Applies to: PARVQ must be 'ND' when QAPP flag is 'U'.

Severity: Error

Cause: The value U is not appropriate for the QAPPFLAGS field unless the value of the PARVQ field is set to ND.

Action: Verify the value of the QAPPFLAGS and PARVQ fields. Correct as appropriate.

R70

Applies to: VAL_1C can not be zero when VQ_1C is other than 'ND'.

Severity: Error

Cause: The VQ_1C field is not set to ND. This is incorrect for result records where the VAL_1C field is set to 0.

Action: Verify the value of the VQ_1C and VAL_1C fields. Correct as appropriate.

R71

Applies to: VAL_1C must be zero when VQ_1C is 'ND'.

Severity: Error

Cause: The VAL_1C field is not set to 0. This is incorrect when the VQ_1C column is set to ND.

Action: Verify the value of both fields. Correct as appropriate.

R72

Applies to: VAL_CONFIRM can not be zero when VQ_CONFIRM is other than 'ND'.

Severity: Error

Cause: The VQ_CONFIRM column must be set to ND if the VAL_CONFIRM column is 0.

Action: Verify the value of the VQ_CONFIRM and VAL_CONFIRM columns. Correct as appropriate.

R73

Applies to: VAL_CONFIRM must be zero when VQ_CONFIRM is 'ND'.

Severity: Error

Cause: The VAL_CONFIRM must be set to 0 if the VQ_CONFIRM column is ND.

Action: Verify the value of the VQ_CONFIRM and VAL_CONFIRM columns. Correct as appropriate.

R74A

Applies to: VAL_1C can not be provided for this PRCCODE.

Severity: Error

Cause: The VAL_1C field is not empty. This is incorrect for result records where the PRCCODE is not HC, STD or ORG.

Action: Verify the value of the VAL_1C and PRCCODE fields. Correct as appropriate.

R74B

Applies to: VQ_1C can not be provided for this PRCCODE.

Severity: Error

Cause: The VQ_1C field is not empty. This is incorrect for result records where the PRCCODE is not HC, STD or ORG.

Action: Verify the value of the VQ_1C and PRCCODE fields. Correct as appropriate.

R75

Applies to: VAL_1C is not a number.

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

R76

Applies to: VAL_1C can not be greater than 9,999,999,999.9999.

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field; 9999999999.9999

Action: Verify the accuracy of your entry and correct the data

R77

Applies to: VAL_CONFIRM is not a number.

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

R78

Applies to: VAL_CONFIRM can not be greater than 9,999,999,999.9999.

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field;
9999999999.9999

Action: Verify the accuracy of your entry and correct the data

R79

Applies to: DQTYPE must be entered when EPA_FLAGS are supplied.

Severity: Error

Cause: The DQTYPE field defines the specific literature reference of the flagging schema used to qualify analytical data. Only AFCEE, EPA, or State recognized flagging schema may be used to flag these data.

Action: Enter a valid DQTYPE code. If an appropriate code is not available, contact the ERPIMS Help Desk for assistance.

R80

Applies to: DQTYPE cannot be set to Q if EPA_FLAGS are supplied.

Severity: Error

Cause: The DQTYPE field defines the specific literature reference of the flagging schema used to qualify analytical data. Only AFCEE, EPA, or State recognized flagging schema may be used to flag these data.

Action: Enter a valid DQTYPE code. If an appropriate code is not available, contact the ERPIMS Help Desk for assistance.

R81

Applies to: The analyte entered is not appropriate for this Analytical Method.

Severity: Error

Cause: The analyte reported cannot normally be analyzed by this method.

Action: Enter the correct PARLABEL. If this does not correct the problem verify that the PRCCODE for this analyte is correct.

R82

Applies to: Water samples should be reported on a per unit Volume basis

Severity: Error

Cause: The units for the specified record are not appropriate for a water sample.

Action: Enter the correct value in the units field.

R83

Applies to: Soil samples should be reported on a per unit Weight basis

Severity: Error

Cause: The units for the specified record are not appropriate for a soil sample.

Action: Enter the correct value in the units field.

R84

Applies to: Leachate samples should be reported on a per unit Volume basis

Severity: Error

Cause: The units for the specified record are not appropriate for samples that have been subjected to a leaching procedure.

Action: Enter the correct value in the units field.

R85

Applies to: Numeric value too large. Max value is 9999999999.9999

Severity: Error

Cause: The numeric value you have entered exceeds the maximum allowed for this field:
9999999999.9999

Action: Verify the accuracy of your entry and correct the data

R86

Applies to: Spike Added precision must be between 0 and 4.

Severity: Error

Cause: Spike Added precision must be between 0 and 4.

Action: Enter a value between 0 and 4.

R87

Applies to: Spike Added cannot be null for surrogates.

Severity: Error

Cause: Spike Added cannot be null for Surrogates.

Action: Enter the amount spiked for this surrogate.

R88

Applies to: % Recovery cannot be null unless Spike Added is 0 (zero) or Spike Added is Null

Severity: Error

Cause: Percent Recovery must be supplied if an analyte is spiked.

Action: Enter a Percent Recovery result. If the Analyte was not spiked and the SACODE is that of a spiked sample (MS, SD, FS, BS, BD, RM, or KD) enter zero for the Spike Added. If the sample is an FD or LR, leave Spike Added and Percent Recovery null.

R89

Applies to: Units cannot be PERCENT for this Analyte type.

Severity: Error

Cause: Analytes with the PRCCODE HC, ORG, MET, or STD may not be reported in the units PERCENT.

Action: Report the Analytes on a per unit volume or mass basis.

R90

Applies to: LABSAMPID can not be null

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

R91

Applies to: AFIID does not match submission AFIID.

Severity: Error

Cause: The AFIID field in the current record does not match the project AFIID.

Action: Verify that the correct file is being imported. If it is, correct the AFIID of the erroneous record to match the project AFIID.

RO01

Applies to: AFIID does not match submission AFIID.

Severity: Error

Cause: The AFIID field in the current record does not match the project AFIID.

Action: Verify that the correct file is being imported. If it is, correct the AFIID of the erroneous record to match the project AFIID.

RO02

Applies to: OUCODE can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

RO03

Applies to: RSID can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

RO04

Applies to: RSSTAGE can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

RP01

Applies to: AFIID does not match submission AFIID.

Severity: Error

Cause: The AFIID field in the current record does not match the project AFIID.

Action: Verify that the correct file is being imported. If it is, correct the AFIID of the erroneous record to match the project AFIID.

RP02

Applies to: RSID can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

RP03

Applies to: RSSTAGE can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

RP04

Applies to: BEGDATE can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

RP05

Applies to: BEGDATE is not in required format.

Severity: Error

Cause: The value entered in the indicated field cannot be interpreted as a valid date. When you enter an all-numeric date value, ERPTools/PC attempts to interpret it according to the international short date settings found in the Windows(r) control panel. For example, if the international date setting is DMY, the string 4-5-95 will be interpreted as 4-May-95. (NOTE: Due to a bug in the Microsoft Access date conversion functions, the YMD format is not supported in this version).

Action: Check your Windows(r) date settings for the correct format to enter numeric date values. If you still experience problems, use a non-numeric date value (i.e. 4-May-95).

RP06

Applies to: BEGDATE can not be later than validation date.

Severity: Error

Cause: The value of the BEGDATE field is earlier than your system's date.

Action: Verify that the date settings in your system are up to date. If they are, correct the value of the BEGDATE field to reflect the actual date the performance period began.

RP07

Applies to: ENDDATE can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

RP08

Applies to: ENDDATE is not in required format.

Severity: Error

Cause: The value entered in the indicated field cannot be interpreted as a valid date. When you enter an all-numeric date value, ERPTools/PC attempts to interpret it according to the international short date settings found in the Windows(r) control panel. For example, if the international date setting is DMY, the string 4-5-95 will be interpreted as 4-May-95. (NOTE: Due to a bug in the Microsoft Access date conversion functions, the YMD format is not supported in this version).

Action: Check your Windows(r) date settings for the correct format to enter numeric date values. If you still experience problems, use a non-numeric date value (i.e. 4-May-95).

RP09

Applies to: ENDDATE can not be later than validation date.

Severity: Error

Cause: The value of the ENDDATE field is greater than your system's date.

Action: Verify that the date settings in your system are up to date. If they are, correct the value of the ENDDATE field.

RP10

Applies to: PARAMETER is not a valid code.

Severity: Error

Cause: The PARAMETER code you have entered was not found in the valid value list PRF

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

RP11

Applies to: PARVAL is not a number.

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

RP12

Applies to: Numeric value too large. Max value is 99999999.99

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field;
99999999.99

Action: Verify the accuracy of your entry and correct the data

RP13

Applies to: PARUN is not a number.

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

RP14

Applies to: Numeric value too large. Max value is 99999999.99

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field;
99999999.99

Action: Verify the accuracy of your entry and correct the data

RP15

Applies to: UNITS is not a valid code.

Severity: Error

Cause: The UNITS code you have entered was not found in the valid value list UTR

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in
finding the correct valid value code

RP18

Applies to: BEGDATE can not be greater than ENDDATE.

Severity: Error

Cause: The value of the BEGDATE field is earlier than the value of the ENDDATE field.

Action: Enter correct values for both fields.

RP19

Applies to: PARVAL can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

RP20

Applies to: UNITS can not be Q

Severity: Error

Cause: The value Q is not appropriate for the UNITS field.

Action: Select the correct value from the AFCEE provided VVL.

RS01

Applies to: AFIID does not match submission AFIID.

Severity: Error

Cause: The AFIID field in the current record does not match the project AFIID.

Action: Verify that the correct file is being imported. If it is, correct the AFIID of the
erroneous record to match the project AFIID.

RS02

Applies to: RSID can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

RS03

Applies to: RSNAME can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

RS04

Applies to: RSSTAGE is not a valid code.

Severity: Error

Cause: The RSSTAGE code you have entered was not found in the valid value list RSS

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

RS06

Applies to: RSDESC can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

RS07

Applies to: RSDESC must contain at least 25 characters.

Severity: Error

Cause: The value of the RSDESC field is less than 25 characters long.

Action: Enter a meaningful description for the RSDESC field that is at least 25 characters long.

RT01

Applies to: AFIID does not match submission AFIID.

Severity: Error

Cause: The AFIID field in the current record does not match the project AFIID.

Action: Verify that the correct file is being imported. If it is, correct the AFIID of the erroneous record to match the project AFIID.

RT02

Applies to: ESTDATE can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

RT03

Applies to: ESTDATE is not in required format.

Severity: Error

Cause: The value entered in the indicated field cannot be interpreted as a valid date. When you enter an all-numeric date value, ERPTools/PC attempts to interpret it according to the international short date settings found in the Windows(r) control panel. For example, if the international date setting is DMY, the string 4-5-95 will be interpreted as 4-May-95. (NOTE: Due to a bug in the Microsoft Access date conversion functions, the YMD format is not supported in this version).

Action: Check your Windows(r) date settings for the correct format to enter numeric date values. If you still experience problems, use a non-numeric date value (i.e. 4-May-95).

RT04

Applies to: GROUPCODE is not a valid code.

Severity: Error

Cause: The GROUPCODE code you have entered was not found in the valid value list ANG

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

RT05

Applies to: MEDIA is not a valid code.

Severity: Error

Cause: The MEDIA code you have entered was not found in the valid value list MED

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

RT06

Applies to: RSID can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

RT07

Applies to: RSSTAGE can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

RT08

Applies to: RTCLASS is not a valid code.

Severity: Error

Cause: The RTCLASS code you have entered was not found in the valid value list RTC

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

RT09

Applies to: RTID can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

RT10

Applies to: RTNAME can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

RT11

Applies to: RTTYPE is not a valid code.

Severity: Error

Cause: The RTTYPE code you have entered was not found in the valid value list RTT

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

RT12

Applies to: STARTDATE can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

RT13

Applies to: STARTDATE is not in required format.

Severity: Error

Cause: The value entered in the indicated field cannot be interpreted as a valid date. When you enter an all-numeric date value, ERPTools/PC attempts to interpret it according to the international short date settings found in the Windows(r) control panel. For example, if the international date setting is DMY, the string 4-5-95 will be interpreted as 4-May-95. (NOTE: Due to a bug in the Microsoft Access date conversion functions, the YMD format is not supported in this version).

Action: Check your Windows(r) date settings for the correct format to enter numeric date values. If you still experience problems, use a non-numeric date value (i.e. 4-May-95).

RT23

Applies to: ESTDATE can not be later than STARTDATE.

Severity: Error

Cause: The value of the ESTDATE field is greater than the value of the STARTDATE field.

Action: Verify the value of both fields. Correct as appropriate.

RT24

Applies to: RTDESC can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

RT25

Applies to: RTDESC must contain at least 25 characters.

Severity: Error

Cause: The value of the RTDESC field is less than 25 characters long.

Action: Enter a meaningful description for the RTDESC field that is at least 25 characters long.

RX01

Applies to: AFIID does not match submission AFIID.

Severity: Error

Cause: The AFIID field in the current record does not match the project AFIID.

Action: Verify that the correct file is being imported. If it is, correct the AFIID of the erroneous record to match the project AFIID.

RX02

Applies to: RSID can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

RX03

Applies to: RSSTAGE can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

RX04

Applies to: SITEID is not a valid code.

Severity: Error

Cause: The SITEID code you have entered was not found in the valid value list

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

RX05

Applies to: SITEID is not a number.

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

RX06

Applies to: Numeric value too large. Max value is 999

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field; 999

Action: Verify the accuracy of your entry and correct the data

S**S06**

Applies to: Matrix is not valid for QC samples

Severity: Error

Cause: For prime projects, the value of the MATRIX field is not valid for sample records where LOCID is set to FIELDQC or LABQC. For Lab projects the value of the MATRIX field is not valid for samples with a SACODE of AB, EB, TB, LB, BS, BD, RM, KD.

Action: Enter a MATRIX that is appropriate for this type of sample.

S07

Applies to: MATRIX is not valid for non-QC samples

Severity: Error

Cause: For prime projects, the value of the MATRIX field is only valid for sample records where LOCID is set to FIELDQC or LABQC. For Lab projects the value of the MATRIX field is only valid for samples with a SACODE of AB, EB, TB, LB, BS, BD, RM, KD.

Action: Enter a MATRIX that is appropriate for this type of sample.

S09

Applies to: SACODE must be 'AB', 'EB' or 'TB' when LOCID is 'FIELDQC'.

Severity: Error

Cause: The only allowed values for the SACODE field in FIELDQC samples are AB, EB and TB.

Action: Verify the value of the LOCID and SACODE fields. Correct as appropriate.

S10

Applies to: SACODE can not be 'AB', 'EB' or 'TB' when LOCID is not 'FIELDQC'.

Severity: Error

Cause: The values AB, EB and TB are only valid in the SACODE field for FIELDQC samples.

Action: Verify the value of the LOCID and SACODE fields. Correct as appropriate.

S113

Applies to: LOCID can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

S115

Applies to: MATRIX is not a valid code.

Severity: Error

Cause: The MATRIX code you have entered was not found in the valid value list MTX

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

S117

Applies to: SACODE is not a valid code.

Severity: Error

Cause: The SACODE code you have entered was not found in the valid value list SA

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

S12

Applies to: LOGCODE is not a valid code.

Severity: Error

Cause: The LOGCODE code you have entered was not found in the valid value list LOG

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

S121

Applies to: Ambient blank is not associated with a normal sample.

Severity: Error

Cause: No field sample records seem to reference this ambient blank.

Action: Locate the field samples for the sampling event that the ambient blank was used for.
Correct the ABLOT field in these samples to reference the ambient blank.

S122

Applies to: Equipment blank is not associated with a normal sample.

Severity: Error

Cause: No field sample records seem to reference this equipment blank.

Action: Locate the field samples for the sampling event that the equipment blank was used for.
Correct the EBLot field in these samples to reference the equipment blank.

S123

Applies to: Trip blank is not associated with a normal sample.

Severity: Error

Cause: No field sample records seem to reference this trip blank.

Action: Locate the field samples for the sampling event that the trip blank was used for.
Correct the TBLot field in these samples to reference the trip blank.

S125

Applies to: Corresponding TEST records were not found.

Severity: Error

Cause: There are no test records for this sample.

Action: Enter the test records.

S126

Applies to: Parent Field Sample ID does not point to an existing Field Sample ID

Severity: Error

Cause: The Parent Field Sample ID of the current record does not match the Field Sample ID entry of any records currently residing in the database.

Action: Enter a valid Field Sample ID, i.e., the Field Sample ID of a record with the sacode N that currently exists in the database or that will be entered before a transfer file is produced.

S127

Applies to: Parent Lab Sample ID does not point to an existing Lab Sample ID

Severity: Error

Cause: The Parent Lab Sample ID of the current record does not match the Lab Sample ID entry of any records currently residing in the database.

Action: Enter a valid Lab Sample ID, i.e., the Lab Sample ID of a record with the sacode LB, BS, BD, RM, or KD that currently exists in the database or that will be entered before a transfer file is produced.

S128

Applies to: The Parent Sample for this record does not have a Sample Type of N

Severity: Error

Cause: The Parent Sample for this record, referred to by the entry in the field Parent Field Sample ID, does not have the Sample Type of N. This sample must be tied to a valid parent sample with the Sample Type code of N.

Action: Enter the correct Field Sample ID of the parent normal sample in the field Parent Field Sample ID.

S129

Applies to: The Parent Sample for this record does not have a Sample Type of BS (for BD Samples) or RM (for KD Samples)

Severity: Error

Cause: The Parent Sample for this record, referred to by the entry in the field Parent Lab Sample ID, does not have the Sample Type of BS or RM. This sample must be tied to a valid parent sample with the Sample Type code of BD or KD respectively.

Action: Enter the correct Lab Sample ID of the parent BS or RM sample in the field Parent Lab Sample ID.

S13

Applies to: LOGDATE can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

S14

Applies to: LOGDATE is not in required format.

Severity: Error

Cause: The value entered in the indicated field cannot be interpreted as a valid date. When you enter an all-numeric date value, ERPTools/PC attempts to interpret it according to the international short date settings found in the Windows(r) control panel. For example, if the international date setting is DMY, the string 4-5-95 will be interpreted as 4-May-95. (NOTE: Due to a bug in the Microsoft Access date conversion functions, the YMD format is not supported in this version).

Action: Check your Windows(r) date settings for the correct format to enter numeric date values. If you still experience problems, use a non-numeric date value (i.e. 4-May-95).

S15

Applies to: LOGDATE can not be later than validation date.

Severity: Error

Cause: The value in the LOGDATE field is greater than your system's date.

Action: Verify that the date settings in your system are up to date. If they are, correct the value of the LOGDATE field to reflect the actual date the analysis was performed.

S16

Applies to: LOGTIME can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

S17

Applies to: LOGTIME is not in required format.

Severity: Error

Cause: The value entered in the indicated field cannot be interpreted as a valid time.

Action: Enter a four digit number between 0000 and 2359.

S18

Applies to: SBD can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

S19

Applies to: SBD is not a number.

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

S20

Applies to: SBD must be zero when LOCID is 'FIELDQC'.

Severity: Error

Cause: The value of the SBD field is not 0. This is incorrect for sample records where the value of the LOCID field is set to FIELDQC.

Action: For sample records which do not have a LOCID of FIELDQC, enter a beginning depth which is greater than 0.

S21

Applies to: Numeric value too large. Max value is 99999.99

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field; 99999.99

Action: Verify the accuracy of your entry and correct the data

S22

Applies to: SED can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

S23

Applies to: SED is not a number.

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

S24

Applies to: SED must be zero when LOCID is 'FIELDQC'.

Severity: Error

Cause: The value of the SED field is not 0. This is incorrect for sample records where the value of the LOCID field is set to FIELDQC.

Action: Verify the value of the LOCID and SED fields. Correct as appropriate.

S25

Applies to: Numeric value too large. Max value is 99999.99

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field; 99999.99

Action: Verify the accuracy of your entry and correct the data

S27

Applies to: SMCODE is not a valid code.

Severity: Error

Cause: The SMCODE code you have entered was not found in the valid value list SM

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

S28

Applies to: SBD can not be greater than SED.

Severity: Error

Cause: The value of the SBD field is greater than the value of the SED field.

Action: Verify the value of both fields. Correct as appropriate.

S34

Applies to: LOGCODE cannot be set to 'NA' unless this is a Lab Quality Control sample.

Severity: Error

Cause: The value NA is not appropriate in the LOGCODE field for LABQC sample records.

For prime projects these are records where LOCID is LABQC. For Lab projects these are records where the SACODE is LB, BS, BD , RM or KD.

Action: Verify the value of both fields. Correct as appropriate.

S35

Applies to: LOGCODE must be set to 'NA' for Lab Quality Control samples.

Severity: Error

Cause: The LOGCODE field must be set to 'NA' for LABQC sample records. For prime projects these are records where LOCID is LABQC. For Lab projects these are records where the SACODE is LB, BS, BD , RM or KD.

Action: Verify the value of both fields. Correct as appropriate.

S36

Applies to: SACODE is not appropriate for Lab Quality Control samples.

Severity: Error

Cause: The only allowed values for the SACODE field in LABQC samples are LB, BS, BD, RM and KD. For prime projects these are records where LOCID is LABQC. For Lab projects these are records where the FLDSAMPID is null.

Action: Verify the value of both fields. Correct as appropriate.

S37

Applies to: SACODE is only appropriate for Lab Quality Control samples.

Severity: Error

Cause: The SACODE values LB, BS, BD, RM and KD are only appropriate for LABQC samples. For prime projects these are records where LOCID is LABQC. For Lab projects these are records where the FLDSAMPID is null.

Action: Verify the value of both fields. Correct as appropriate.

S40

Applies to: SAMPNO can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

S41

Applies to: SAMPNO is not a number.

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

S42

Applies to: Sample number must be between 1 and 99.

Severity: Error

Cause: The value entered in the SAMPNO field must be an integer between 1 and 99.

Action: Correct the value entered in the SAMPNO field.

S44

Applies to: ABLLOT is not in the required DDMMYYNN format.

Severity: Error

Cause: The indicated field must have the following format: Date of the related blank in DDMMYY format plus SAMPNO of the related blank. For example, a sample related to the third ambient blank taken on 25 Apr 97 should have 25049703 in the ABLLOT field.

Action: Enter the ABLLOT, TBLLOT or EBLLOT in the DDMMYYNN format.

S46

Applies to: EBLLOT is not in the required DDMMYYNN format.

Severity: Error

Cause: The indicated field must have the following format: Date of the related blank in DDMMYY format plus SAMPNO of the related blank. For example, a sample related to the third ambient blank taken on 25 Apr 97 should have 25049703 in the EBLLOT field.

Action: Enter the ABLLOT, TBLLOT or EBLLOT in the DDMMYYNN format.

S48

Applies to: TBLLOT is not in the required DDMMYYNN format.

Severity: Error

Cause: The indicated field must have the following format: Date of the related blank in DDMMYY format plus SAMPNO of the related blank. For example, a sample related to the third ambient blank taken on 25 Apr 97 should have 25049703 in the TBLLOT field.

Action: Enter the ABLLOT, TBLLOT or EBLLOT in the DDMMYYNN format.

S49

Applies to: FLDSAMPID can not be null when LOCID is not 'LABQC'.

Severity: Error

Cause: The FLDSAMPID field is empty. This is incorrect for all sample records except those where the LOCID is set to LABQC.

Action: For sample records which do not have a LOCID of LABQC, enter a valid field sample ID.

S50

Applies to: COOLER can not be null when LOCID is not 'LABQC' and TBLOT is not null and SACODE is not 'TB'.

Severity: Error

Cause: The COOLER field is empty. This is not correct for samples that are not Trip Blanks, with a TBLOT entry and LOCID is not set to LABQC.

Action: Verify the value of the SACODE, COOLER and LOCID fields. Correct as appropriate.

S51

Applies to: COOLER can not be null when SACODE is 'TB'.

Severity: Error

Cause: Trip Blanks must be assigned a COOLER ID.

Action: Enter a COOLER ID for this record.

S55

Applies to: ABLOT must be null when LOCID is 'FIELDQC' or 'LABQC'.

Severity: Error

Cause: The ABLOT field is not empty. It should be left empty for QC samples.

Action: Clear the ABLOT field.

S56

Applies to: EBLOT must be null when LOCID is 'FIELDQC' or 'LABQC'.

Severity: Error

Cause: The EBLOT field is not empty. It should be left empty for QC samples.

Action: Clear the EBLOT field.

S57

Applies to: TBLOT must be null when LOCID is 'FIELDQC' or 'LABQC'.

Severity: Error

Cause: The TBLOT field is empty. This is incorrect for sample records where the LOCID is set to FIELDQC or LABQC.

Action: Verify the value of both fields. Correct as appropriate.

S61

Applies to: MATRIX 'WH' cannot be used for QC samples.

Severity: Error

Cause: The value WH is not appropriate for the MATRIX field in QC sample records. For prime projects these are records where LOCID is set to FIELDQC or LABQC. For lab projects these are records where SACODE is AB, EB, TB, LB, BS, BD, RM, KD.

Action: Verify the value of both fields. Correct as appropriate.

S63

Applies to: SMCODE can not be 'NA' when SACODE is 'EB'.

Severity: Error

Cause: The value of the SMCODE field is set to NA. This is incorrect for sample records where the value of the SACODE field is set to EB. The SMCODE should reflect the equipment type on which the rinse was performed.

Action: Verify the value of both fields. Correct as appropriate.

S64

Applies to: Sample LOGDATE is earlier than Ambient blank LOGDATE.

Severity: Error

Cause: The value in the LOGDATE field for the ambient blank record that is referenced in the ABLOT field is greater than the LOGDATE of the current record.

Action: Verify that the ABLOT field references the correct ambient blank, and that the LOGDATE field in both records is correct. Ambient blanks cannot be created after the sampling event.

S65

Applies to: Sample LOGDATE is earlier than Equipment blank LOGDATE.

Severity: Error

Cause: The value in the LOGDATE field for the equipment blank record that is referenced in the EBLOT field is greater than the LOGDATE of the current record.

Action: Verify that the EBLOT field references the correct equipment blank, and that the LOGDATE field in both records is correct. Equipment blanks cannot be created after the sampling event.

S67

Applies to: Parent Lab Sample Id field and Parent Field Sample Id field cannot both be filled in for this Sample Type

Severity: Error

Cause: Parent Lab Sample Id field and Parent Field Sample Id field cannot both be filled in for records with the Sample Type code SD, MS, FD, LR, FR, FS, BD or KD.

Action: If the Sample Type code is SD, MS, FD, LR, FR, or FS delete the Parent Lab Sample ID entry. If the Sample Type code is BD or KD, delete the Parent Field Sample ID entry..

S68

Applies to: Parent Field Sample Id field cannot be null for this Sample Type

Severity: Error

Cause: The Parent Field Sample ID for this Sample Type code must contain a valid Field Sample ID that refers to the parent for this record.

Action: Enter a valid Field Sample ID for this record, in the field Parent Field Sample ID.

S69

Applies to: Parent Lab Sample Id field cannot be null for this Sample Type

Severity: Error

Cause: The Parent Lab Sample ID for this Sample Type code must contain a valid Lab Sample ID that refers to the parent for this record.

Action: Enter a valid Lab Sample ID for this record, in the field Parent Lab Sample ID.

S70

Applies to: Parent Field Sample Id field should be null for this Sample Type

Severity: Error

Cause: Samples with the Sample Type code AB, EB, MB, RB, TB, N, BS, BD, LB, RM or KD should not contain an entry in the field Parent Field Sample ID.

Action: Delete the entry in the field Parent Field Sample ID.

S71

Applies to: Parent Lab Sample Id field should be null for this Sample Type

Severity: Error

Cause: Samples with the Sample Type code AB, EB, FD, FR, FS, MB, RB, TB, N, RD, BS, LB, MS, SD, LR or RM should not contain an entry in the field Parent Lab Sample ID.

Action: Delete the entry in the field Parent Lab Sample ID.

S72

Applies to: LABSAMPID can not be null

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

S73

Applies to: AFIID does not match submission AFIID.

Severity: Error

Cause: The AFIID field in the current record does not match the project AFIID.

Action: Verify that the correct file is being imported. If it is, correct the AFIID of the erroneous record to match the project AFIID.

SC01

Applies to: AFIID does not match submission AFIID.

Severity: Error

Cause: The AFIID field in the current record does not match the project AFIID.

Action: Verify that the correct file is being imported. If it is, correct the AFIID of the erroneous record to match the project AFIID.

SC02

Applies to: GROUPCODE is not a valid code.

Severity: Error

Cause: The GROUPCODE code you have entered was not found in the valid value list ANG

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

SC03

Applies to: SITEID is not a valid code.

Severity: Error

Cause: The SITEID code you have entered was not found in the valid value list

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

SC04

Applies to: SITEID is not a number.

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

SC05

Applies to: Numeric value too large. Max value is 999

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field; 999

Action: Verify the accuracy of your entry and correct the data

SO01

Applies to: AFIID does not match submission AFIID.

Severity: Error

Cause: The AFIID field in the current record does not match the project AFIID.

Action: Verify that the correct file is being imported. If it is, correct the AFIID of the erroneous record to match the project AFIID.

SO02

Applies to: OUCODE can not be null.

Severity: Error

Cause: OUCODE is a required field

Action: Enter a valid OUCODE

SO05

Applies to: SITEID is not a valid code.

Severity: Error

Cause: The SITEID code you have entered was not found in the valid value list

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

SO06

Applies to: SITEID is not a number.

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

SO07

Applies to: Numeric value too large. Max value is 999

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field; 999

Action: Verify the accuracy of your entry and correct the data

ST02

Applies to: ST_UNIT field can not be blank.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

ST03

Applies to: STRATORDER is not a number.

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

ST04

Applies to: Numeric value too large. Max value is 999

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field; 999

Action: Verify the accuracy of your entry and correct the data

ST05

Applies to: AFIID does not match submission AFIID.

Severity: Error

Cause: The AFIID field in the current record does not match the project AFIID.

Action: Verify that the correct file is being imported. If it is, correct the AFIID of the erroneous record to match the project AFIID.

ST06

Applies to: STRATORDER can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

T**T01**

Applies to: ANADATE can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

T02

Applies to: ANADATE is not in required format.

Severity: Error

Cause: The value entered in the indicated field cannot be interpreted as a valid date. When you enter an all-numeric date value, ERPTools/PC attempts to interpret it according to the international short date settings found in the Windows(r) control panel. For example, if the international date setting is DMY, the string 4-5-95 will be interpreted as 4-May-95. (NOTE: Due to a bug in the Microsoft Access date conversion functions, the YMD format is not supported in this version).

Action: Check your Windows(r) date settings for the correct format to enter numeric date values. If you still experience problems, use a non-numeric date value (i.e. 4-May-95).

T03

Applies to: ANADATE can not be later than validation date.

Severity: Error

Cause: The value in the ANADATE field is greater than your system's date.

Action: Verify that the date settings in your system are up to date. If they are, correct the value of the ANADATE field to reflect the actual date the analysis was performed.

T04

Applies to: ANADATE can not be earlier than LOGDATE.

Severity: Error

Cause: The value in the ANADATE field is earlier than the LOGDATE of the parent record.

Action: Verify that the test record is linked to the correct parent. If it is, correct the value of the ANADATE field to reflect the actual date the analysis was performed.

T05

Applies to: ANATIME is not in required format.

Severity: Error

Cause: The value entered in the indicated field cannot be interpreted as a valid time.

Action: Enter a four digit number between 0000 and 2359.

T07

Applies to: ANMCODE is not a valid code.

Severity: Error

Cause: The ANMCODE code you have entered was not found in the valid value list ANM

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

T08

Applies to: ANMCODE can not be 'UNK'.

Severity: Error

Cause: The ANMCODE field is set to UNK.

Action: Enter a correct value for the ANMCODE field.

T10

Applies to: BASIS is not a valid code.

Severity: Error

Cause: The BASIS code you have entered was not found in the valid value list BAS

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

T12

Applies to: EXMCODE is not a valid code.

Severity: Error

Cause: The EXMCODE code you have entered was not found in the valid value list EXM

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

T120

Applies to: LOCID can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

T122

Applies to: MATRIX can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

T125

Applies to: SACODE can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

T129

Applies to: LOGDATE can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

T13

Applies to: EXMCODE can not be 'UNK'.

Severity: Error

Cause: The value UNK is not appropriate for the EXMCODE field.

Action: Enter a correct value for the EXMCODE field.

T130

Applies to: LOGDATE is not in required format.

Severity: Error

Cause: The value entered in the indicated field cannot be interpreted as a valid date. When you enter an all-numeric date value, ERPTools/PC attempts to interpret it according to the international short date settings found in the Windows(r) control panel. For example, if the international date setting is DMY, the string 4-5-95 will be interpreted as 4-May-95. (NOTE: Due to a bug in the Microsoft Access date conversion functions, the YMD format is not supported in this version).

Action: Check your Windows(r) date settings for the correct format to enter numeric date values. If you still experience problems, use a non-numeric date value (i.e. 4-May-95).

T132

Applies to: LOGTIME can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

T133

Applies to: LOGTIME is not in required format.

Severity: Error

Cause: The value entered in the indicated field cannot be interpreted as a valid time.

Action: Enter a four digit number between 0000 and 2359.

T134

Applies to: SBD can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

T139

Applies to: SED can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

T14

Applies to: EXTDATE is not in required format.

Severity: Error

Cause: The value entered in the indicated field cannot be interpreted as a valid date. When you enter an all-numeric date value, ERPTools/PC attempts to interpret it according to the international short date settings found in the Windows(r) control panel. For example, if the international date setting is DMY, the string 4-5-95 will be interpreted as 4-May-95. (NOTE: Due to a bug in the Microsoft Access date conversion functions, the YMD format is not supported in this version).

Action: Check your Windows(r) date settings for the correct format to enter numeric date values. If you still experience problems, use a non-numeric date value (i.e. 4-May-95).

T148

Applies to: Corresponding RESULT records were not found.

Severity: Error

Cause: There are no result records for this test.

Action: Enter the result records.

T15

Applies to: EXTDATE can not be later than validation date.

Severity: Error

Cause: The value in the EXTDATE field is greater than your system's date.

Action: Verify that the date settings in your system are up to date. If they are, correct the value of the EXTDATE field to reflect the actual date the analysis was performed.

T16

Applies to: EXTDATE can not be earlier than LOGDATE.

Severity: Error

Cause: The value of the EXTDATE field is less than the value of the LOGDATE field in the parent sample record.

Action: Verify the value of the EXTDATE and LOGDATE fields. Correct as appropriate.

T17

Applies to: EXTTIME is not in required format.

Severity: Error

Cause: The value entered in the indicated field cannot be interpreted as a valid time.

Action: Enter a four digit number between 0000 and 2359.

T19

Applies to: LABCODE is not a valid code.

Severity: Error

Cause: The LABCODE code you have entered was not found in the valid value list LAB

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

T20

Applies to: RUN_NUMBER must be between 1 and 99.

Severity: Error

Cause: The value entered in the RUN_NUMBER field must be an integer between 1 and 99.

Action: Correct the value entered in the RUN_NUMBER field.

T21

Applies to: ANADATE can not be earlier than EXTDATE.

Severity: Error

Cause: The value in the ANADATE field is earlier than the value in the EXTDATE field.

Action: Verify the values of both fields and enter the correct dates.

T22

Applies to: EXTDATE can not be null when EXMCODE is not 'NONE'.

Severity: Error

Cause: The EXTDATE field is empty. This is incorrect for test records where EXMCODE is anything but NONE.

Action: Verify the value of the EXTDATE and EXMCODE fields. Correct as appropriate.

T23

Applies to: LABLOTCTL can not be null when LABCODE is not 'FLD'.

Severity: Error

Cause: The LABLOTCTL field is empty. This is incorrect unless the LABCODE field is set to FLD.

Action: Verify the value of both fields. Correct as appropriate.

T24

Applies to: LABSAMPID can not be null when LABCODE is not 'FLD'.

Severity: Error

Cause: The LABSAMPID field is empty. This is incorrect unless the LABCODE field is set to FLD.

Action: Verify the value of both fields. Correct as appropriate.

T26

Applies to: BASIS is invalid for the MATRIX 'S' or 'T'.

Severity: Error

Cause: Soil or tissue samples that are not material blanks, that are not subjected to a leaching procedure and that are not moisture/solids determinations may only be reported with the matrix W or D.

Action: Verify that the values entered in the BASIS, LCHMETH, ANMCODE and MATRIX fields are correct.

T27

Applies to: BASIS is invalid for the MATRIX 'W', 'A' or 'G'.

Severity: Error

Cause: The value entered in the BASIS field is not appropriate for the MATRIX values A*, G* or W* unless the ANMCODE is D2216, E160.1, E160.2, E160.3, E160.4 or E160.5.

Action: Verify that the values entered in the BASIS, MATRIX and ANMCODE fields are correct.

T28

Applies to: MATRIX requires that BASIS equal 'X'.

Severity: Error

Cause: The BASIS field is not X.

Action: Verify that the rest of the information in the test record and the sampling matrix of the parent record has been entered correctly. If they are, enter the value X in the BASIS field.

T30

Applies to: BASIS is invalid for leachate method.

Severity: Error

Cause: The value of the BASIS field must be set to X for samples subjected to a leaching procedure.

Action: Verify the value of both fields. Correct as appropriate.

T31

Applies to: RUN_NUMBER can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

T32

Applies to: RUN_NUMBER is not a number.

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

T33

Applies to: SAMPNO can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

T34

Applies to: LCHMETH is not a valid code.

Severity: Error

Cause: The LCHMETH code you have entered was not found in the valid value list LCH

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

T35

Applies to: LCHDATE is not in required format.

Severity: Error

Cause: The value entered in the indicated field cannot be interpreted as a valid date. When you enter an all-numeric date value, ERPTools/PC attempts to interpret it according to the international short date settings found in the Windows(r) control panel. For example, if the international date setting is DMY, the string 4-5-95 will be interpreted as 4-May-95. (NOTE: Due to a bug in the Microsoft Access date conversion functions, the YMD format is not supported in this version).

Action: Check your Windows(r) date settings for the correct format to enter numeric date values. If you still experience problems, use a non-numeric date value (i.e. 4-May-95).

T36

Applies to: LCHDATE can not be later than validation date.

Severity: Error

Cause: The value in the LCHDATE field is greater than your system's date.

Action: Verify that the date settings in your system are up to date. If they are, correct the value of the LCHDATE field to reflect the actual date the analysis was performed.

T37

Applies to: LCHTIME is not in required format.

Severity: Error

Cause: The value entered in the indicated field cannot be interpreted as a valid time.

Action: Enter a four digit number between 0000 and 2359.

T38

Applies to: RTTYPE is not a valid code.

Severity: Error

Cause: The RTTYPE code you have entered was not found in the valid value list RTT

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

T39

Applies to: ANADATE can not be earlier than LCHDATE.

Severity: Error

Cause: The value in the ANADATE field is earlier than the value in the LCHDATE field.

Action: Verify the values of both fields and enter the correct dates.

T40

Applies to: EXTDATE can not be earlier than LCHDATE.

Severity: Error

Cause: The value of the EXTDATE field is less than the value of the LCHDATE field.

Action: Verify the value of the EXTDATE and LCHDATE fields. Correct as appropriate.

T41

Applies to: EXTDATE must be null when EXMCODE is 'NONE'.

Severity: Error

Cause: The EXTDATE is not empty. This is incorrect for test records where the value of the EXMCODE is set to NONE.

Action: Verify the value of the EXTDATE and EXMCODE fields. Correct as appropriate.

T42

Applies to: LCHDATE must be null when LCHMETH is 'NONE'.

Severity: Error

Cause: The LCHDATE field is not empty. This is incorrect if the LCHMETH field is set to NONE.

Action: Verify the value of both fields. Correct as appropriate.

T43

Applies to: LCHDATE can not be null when LCHMETH is not 'NONE'.

Severity: Error

Cause: The LCHDATE field is empty. This is incorrect unless the LCHMETH field is set to NONE.

Action: Verify the value of both fields. Correct as appropriate.

T44

Applies to: Preparation method is invalid for this Analytical method, Matrix and Leachate

Severity: Error

Cause: The preparation method entered is not appropriate for samples that have been subjected to a leaching procedure.

Action: Enter the correct preparation method

T45

Applies to: Preparation method is invalid for this Analytical method and(or) Matrix.

Severity: Error

Cause: The preparation method entered is not appropriate for this Analytical method and matrix.

Action: Enter the correct preparation method

T46

Applies to: Preparation method entered is invalid for this Analytical method when applied to water quality control samples.

Severity: Error

Cause: The preparation method entered is not appropriate for this Analytical method and matrix.

Action: Enter the correct preparation method

T47

Applies to: These Preparatory Methods are not allowed

Severity: Error

Cause: Leaching procedures should be reported in the field Leachate Method.

Action: Select a Leachate method code from the valid value list VVLLCH.

T48

Applies to: LABSAMPID can not be null

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

T49

Applies to: AFIID does not match submission AFIID.

Severity: Error

Cause: The AFIID field in the current record does not match the project AFIID.

Action: Verify that the correct file is being imported. If it is, correct the AFIID of the erroneous record to match the project AFIID.

TO01

Applies to: AFIID does not match submission AFIID.

Severity: Error

Cause: The AFIID field in the current record does not match the project AFIID.

Action: Verify that the correct file is being imported. If it is, correct the AFIID of the erroneous record to match the project AFIID.

TO02

Applies to: LOCID can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

TO03

Applies to: STARTDATE can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

TO04

Applies to: STARTDATE is not in required format.

Severity: Error

Cause: The value entered in the indicated field cannot be interpreted as a valid date. When you enter an all-numeric date value, ERPTools/PC attempts to interpret it according to the international short date settings found in the Windows(r) control panel. For example, if the international date setting is DMY, the string 4-5-95 will be interpreted as 4-May-95. (NOTE: Due to a bug in the Microsoft Access date conversion functions, the YMD format is not supported in this version).

Action: Check your Windows(r) date settings for the correct format to enter numeric date values. If you still experience problems, use a non-numeric date value (i.e. 4-May-95).

TO06

Applies to: STARTTIME can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

TO07

Applies to: STARTTIME is not in required format.

Severity: Error

Cause: The value entered in the indicated field cannot be interpreted as a valid time.

Action: Enter a four digit number between 0000 and 2359.

TO08

Applies to: ENDTIME can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

TO09

Applies to: ENDTIME is not in required format.

Severity: Error

Cause: The value entered in the indicated field cannot be interpreted as a valid time.

Action: Enter a four digit number between 0000 and 2359.

TO10

Applies to: OBS_LOCATION can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

TO11

Applies to: MEASDATE can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

TO12

Applies to: MEASDATE is not in required format.

Severity: Error

Cause: The value entered in the indicated field cannot be interpreted as a valid date. When you enter an all-numeric date value, ERPTools/PC attempts to interpret it according to the international short date settings found in the Windows(r) control panel. For example, if the international date setting is DMY, the string 4-5-95 will be interpreted as 4-May-95. (NOTE: Due to a bug in the Microsoft Access date conversion functions, the YMD format is not supported in this version).

Action: Check your Windows(r) date settings for the correct format to enter numeric date values. If you still experience problems, use a non-numeric date value (i.e. 4-May-95).

TO13

Applies to: MEASDATE can not be later than validation date.

Severity: Error

Cause: The value in the MEASDATE field is greater than your system's date.

Action: Verify that the date settings in your system are up to date. If they are, correct the value of the MEASDATE field to reflect the actual date the analysis was performed.

TO14

Applies to: MEASTIME can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

TO15

Applies to: MEASTIME is not in required format.

Severity: Error

Cause: The value entered in the indicated field cannot be interpreted as a valid time.

Action: Enter a four digit number between 0000 and 2359.

TO16

Applies to: Invalid number.

Severity: Error

Cause: Invalid number.

Action: Enter a valid number for this field.

TO17

Applies to: Numeric value too large. Max value is 99999.99

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field; 99999.99

Action: Verify the accuracy of your entry and correct the data

TO18

Applies to: Invalid value.

Severity: Error

Cause: The TRCUNITS code you have entered was not found in the valid value list UTM

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

TP02

Applies to: AFIID does not match submission AFIID.

Severity: Error

Cause: The AFIID field in the current record does not match the project AFIID.

Action: Verify that the correct file is being imported. If it is, correct the AFIID of the erroneous record to match the project AFIID.

TP03

Applies to: RSID can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

TP04

Applies to: RSSTAGE can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

TP05

Applies to: RTID can not be blank.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

TP06

Applies to: RTTYPE can not be blank.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

TP07

Applies to: BEGDATE can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

TP08

Applies to: BEGDATE is not in required format.

Severity: Error

Cause: The value entered in the indicated field cannot be interpreted as a valid date. When you enter an all-numeric date value, ERPTools/PC attempts to interpret it according to the international short date settings found in the Windows(r) control panel. For example, if the international date setting is DMY, the string 4-5-95 will be interpreted as 4-May-95. (NOTE: Due to a bug in the Microsoft Access date conversion functions, the YMD format is not supported in this version).

Action: Check your Windows(r) date settings for the correct format to enter numeric date values. If you still experience problems, use a non-numeric date value (i.e. 4-May-95).

TP09

Applies to: BEGDATE can not be later than validation date.

Severity: Error

Cause: The value of the BEGDATE field is earlier than your system's date.

Action: Verify that the date settings in your system are up to date. If they are, correct the value of the BEGDATE field to reflect the actual date the performance period began.

TP10

Applies to: ENDDATE can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

TP11

Applies to: ENDDATE is not in required format.

Severity: Error

Cause: The value entered in the indicated field cannot be interpreted as a valid date. When you enter an all-numeric date value, ERPTools/PC attempts to interpret it according to the international short date settings found in the Windows(r) control panel. For example, if the international date setting is DMY, the string 4-5-95 will be interpreted as 4-May-95. (NOTE: Due to a bug in the Microsoft Access date conversion functions, the YMD format is not supported in this version).

Action: Check your Windows(r) date settings for the correct format to enter numeric date values. If you still experience problems, use a non-numeric date value (i.e. 4-May-95).

TP12

Applies to: ENDDATE can not be later than validation date.

Severity: Error

Cause: The value of the ENDDATE field is greater than your system's date.

Action: Verify that the date settings in your system are up to date. If they are, correct the value of the ENDDATE field.

TP13

Applies to: PARAMETER is not a valid code.

Severity: Error

Cause: The PARAMETER code you have entered was not found in the valid value list PRF

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

TP14

Applies to: PARVAL is not a number.

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

TP15

Applies to: Numeric value too large. Max value is 99999999.99

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field;
99999999.99

Action: Verify the accuracy of your entry and correct the data

TP16

Applies to: PARVAL is not a number.

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

TP17

Applies to: Numeric value too large. Max value is 99999999.99

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field;
99999999.99

Action: Verify the accuracy of your entry and correct the data

TP18

Applies to: UNITS is not a valid code.

Severity: Error

Cause: The UNITS code you have entered was not found in the valid value list UTR

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in
finding the correct valid value code

TP21

Applies to: BEGDATE can not be later than ENDDATE.

Severity: Error

Cause: The value of the BEGDATE field is earlier than the value of the ENDDATE field.

Action: Enter correct values for both fields.

TP22

Applies to: PARVAL can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

TP23

Applies to: UNITS can not be Q

Severity: Error

Cause: The value Q is not appropriate for the UNITS field.

Action: Select the correct value from the AFCEE provided VVL.

TR01

Applies to: AFIID does not match submission AFIID.

Severity: Error

Cause: The AFIID field in the current record does not match the project AFIID.

Action: Verify that the correct file is being imported. If it is, correct the AFIID of the erroneous record to match the project AFIID.

TR02

Applies to: LOCID can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

TR03

Applies to: STARTDATE can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

TR04

Applies to: STARTDATE is not in required format.

Severity: Error

Cause: The value entered in the indicated field cannot be interpreted as a valid date. When you enter an all-numeric date value, ERPTools/PC attempts to interpret it according to the international short date settings found in the Windows(r) control panel. For example, if the international date setting is DMY, the string 4-5-95 will be interpreted as 4-May-95. (NOTE: Due to a bug in the Microsoft Access date conversion functions, the YMD format is not supported in this version).

Action: Check your Windows(r) date settings for the correct format to enter numeric date values. If you still experience problems, use a non-numeric date value (i.e. 4-May-95).

TR05

Applies to: STARTDATE can not be later than validation date.

Severity: Error

Cause: The value in the STARTDATE field is greater than your system's date.

Action: Verify that the date settings in your system are up to date. If they are, correct the value of the STARTDATE field to reflect the actual date the analysis was performed.

TR06

Applies to: STARTTIME can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

TR07

Applies to: STARTTIME is not in required format.

Severity: Error

Cause: The value entered in the indicated field cannot be interpreted as a valid time.

Action: Enter a four digit number between 0000 and 2359.

TR08

Applies to: ENDTIME can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

TR09

Applies to: ENDTIME is not in required format.

Severity: Error

Cause: The value entered in the indicated field cannot be interpreted as a valid time.

Action: Enter a four digit number between 0000 and 2359.

TR10

Applies to: TRC_CONC is not a number.

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

TR11

Applies to: Numeric value too large. Max value is 99999.99

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field; 99999.99

Action: Verify the accuracy of your entry and correct the data

TR12

Applies to: TRCUNITS is not a valid code.

Severity: Error

Cause: The TRCUNITS code you have entered was not found in the valid value list UTM

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

TR13

Applies to: TRCTYPE is not a valid code.

Severity: Error

Cause: The TRCTYPE code you have entered was not found in the valid value list TRT

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

TR14

Applies to: TRCVOL is not a number.

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

TR15

Applies to: Numeric value too large. Max value is 99999.99

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field; 99999.99

Action: Verify the accuracy of your entry and correct the data

TR18

Applies to: TRCVOLUNITS is not a valid code.

Severity: Error

Cause: The TRCVOLUNITS code you have entered was not found in the valid value list UTM

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

TW01

Applies to: AFIID does not match submission AFIID.

Severity: Error

Cause: The AFIID field in the current record does not match the project AFIID.

Action: Verify that the correct file is being imported. If it is, correct the AFIID of the erroneous record to match the project AFIID.

TW02

Applies to: LOCID can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

TW03

Applies to: LOGDATE can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

TW04

Applies to: LOGDATE is not in required format.

Severity: Error

Cause: The value entered in the indicated field cannot be interpreted as a valid date. When you enter an all-numeric date value, ERPTools/PC attempts to interpret it according to the international short date settings found in the Windows(r) control panel. For example, if the international date setting is DMY, the string 4-5-95 will be interpreted as 4-May-95. (NOTE: Due to a bug in the Microsoft Access date conversion functions, the YMD format is not supported in this version).

Action: Check your Windows(r) date settings for the correct format to enter numeric date values. If you still experience problems, use a non-numeric date value (i.e. 4-May-95).

TW06

Applies to: LOGTIME can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

TW07

Applies to: LOGTIME is not in required format.

Severity: Error

Cause: The value entered in the indicated field cannot be interpreted as a valid time.

Action: Enter a four digit number between 0000 and 2359.

TW08

Applies to: BIDEPTH is not a number.

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

TW09

Applies to: Numeric value too large. Max value is 9999999.99

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field;
9999999.99

Action: Verify the accuracy of your entry and correct the data

TW10

Applies to: DEPWAT is not a number.

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

TW11

Applies to: Numeric value too large. Max value is 9999999.99

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field;
9999999.99

Action: Verify the accuracy of your entry and correct the data

TW12

Applies to: FTCODE is not a valid code.

Severity: Error

Cause: The FTCODE code you have entered was not found in the valid value list FTC

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in
finding the correct valid value code

TW13

Applies to: TIDEPATH is not a number.

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

TW14

Applies to: Numeric value too large. Max value is 9999999.99

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field;
9999999.99

Action: Verify the accuracy of your entry and correct the data

U**V****W****W11**

Applies to: GZCCODE is not a valid code.

Severity: Error

Cause: The GZCCODE code you have entered was not found in the valid value list GZC

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in
finding the correct valid value code

W12

Applies to: INSDATE can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

W13

Applies to: INSDATE is not in required format.

Severity: Error

Cause: The value entered in the indicated field cannot be interpreted as a valid date. When you enter an all-numeric date value, ERPTools/PC attempts to interpret it according to the international short date settings found in the Windows(r) control panel. For example, if the international date setting is DMY, the string 4-5-95 will be interpreted as 4-May-95. (NOTE: Due to a bug in the Microsoft Access date conversion functions, the YMD format is not supported in this version).

Action: Check your Windows(r) date settings for the correct format to enter numeric date values. If you still experience problems, use a non-numeric date value (i.e. 4-May-95).

W14

Applies to: INSDATE can not be later than validation date.

Severity: Error

Cause: The value of the INSDATE field is greater than your system's date.

Action: Verify that the date settings in your system are up to date. If they are, correct the value of the INSDATE field.

W143

Applies to: LOCID can not be null.

Severity: Error

Cause: LOCID is a required field

Action: Enter a valid LOCID

W15

Applies to: MPELEV can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

W16

Applies to: MPELEV is not a number.

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

W17

Applies to: Numeric value too large. Max value is 15000

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field; 15000

Action: Verify the accuracy of your entry and correct the data

W18

Applies to: MPELEV can not equal ELEV in LDI.

Severity: Error

Cause: The value in the MPELEV field is equal to the value in the ELEV field of the parent location record. It should be greater or less than ground surface elevation.

Action: Verify the value of both fields. Correct as appropriate.

W24

Applies to: SAQCODE is not a valid code.

Severity: Error

Cause: The SAQCODE code you have entered was not found in the valid value list SAQ

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

W45

Applies to: TOTDEPTH can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

W46

Applies to: TOTDEPTH is not a number.

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

W47

Applies to: TOTDEPTH can not exceed DEPTH in LDI.

Severity: Error

Cause: Total casing depth cannot exceed bore-hole depth.

Action: Either the total casing depth (TOTDEPTH) or the borehole depth (DEPTH) is entered incorrectly. Insure the entries for the fields in question are correct.

W48

Applies to: Numeric value too large. Max value is 9999.99

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field; 9999.99

Action: Verify the accuracy of your entry and correct the data

W50

Applies to: WCMCODE is not a valid code.

Severity: Error

Cause: The WCMCODE code you have entered was not found in the valid value list WCM

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

W52

Applies to: WELCODE is not a valid code.

Severity: Error

Cause: The WELCODE code you have entered was not found in the valid value list WEL

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

W54

Applies to: WTCCODE is not a valid code.

Severity: Error

Cause: The WTCCODE code you have entered was not found in the valid value list WTC

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

W69

Applies to: WDPROC is not a valid code.

Severity: Error

Cause: The WDPROC code you have entered was not found in the valid value list WDP

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

W70

Applies to: MPFLAG is not a valid code.

Severity: Error

Cause: The value of the indicated field did not match one of the valid values specified in that field's VVL.

Action: Correct the value so it matches one of the entries in the VVL or ask an ERPTOOLS/PC administrative user to add the new value to the VVL.

W71

Applies to: AFIID does not match submission AFIID.

Severity: Error

Cause: The AFIID field in the current record does not match the project AFIID.

Action: Verify that the correct file is being imported. If it is, correct the AFIID of the erroneous record to match the project AFIID.

WI01

Applies to: AFIID does not match submission AFIID.

Severity: Error

Cause: The AFIID field in the current record does not match the project AFIID.

Action: Verify that the correct file is being imported. If it is, correct the AFIID of the erroneous record to match the project AFIID.

WI02

Applies to: LOCID can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

WI06

Applies to: IBDEPTH can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

WI07

Applies to: IBDEPTH is not a number.

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

WI08

Applies to: Numeric value too large. Max value is 99999.99

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field; 99999.99

Action: Verify the accuracy of your entry and correct the data

WI09

Applies to: IEDEPTH can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

WI10

Applies to: IEDEPTH is not a number.

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

WI11

Applies to: Numeric value too large. Max value is 99999.99

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field; 99999.99

Action: Verify the accuracy of your entry and correct the data

WI12

Applies to: CLASS is not a valid code.

Severity: Error

Cause: The CLASS code you have entered was not found in the valid value list CLA

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

WI13

Applies to: MATERIAL is not a valid code.

Severity: Error

Cause: The MATERIAL code you have entered was not found in the valid value list MAT

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

WI14

Applies to: SDIAM is not a number.

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

WI15

Applies to: Numeric value too large. Max value is 99.99

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field; 99.99

Action: Verify the accuracy of your entry and correct the data

WI16

Applies to: SOUA is not a number.

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

WI17

Applies to: Numeric value too large. Max value is .999

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field; .999

Action: Verify the accuracy of your entry and correct the data

WI18

Applies to: PCTOPEN is not a number.

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

WI19

Applies to: Numeric value too large. Max value is 99.99

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field; 999.99

Action: Verify the accuracy of your entry and correct the data

WI22

Applies to: PCTOPEN should not normally be greater than 55.

Severity: Warning

Cause: The value of the PCTOPEN field is greater than 55%.

Action: Enter a correct value for this field.

WI23

Applies to: IBDEPTH can not be zero when CLASS is 'SCRN'.

Severity: Error

Cause: The IBDEPTH field is set to 0. This is incorrect for records where CLASS is set to SCRN.

Action: Verify the value of the IBDEPTH and CLASS fields. Correct as appropriate.

WI24

Applies to: IEDEPTH can not be less than zero.

Severity: Error

Cause: The value of the IEDEPTH field must be a positive number.

Action: Enter a correct value for IEDEPTH.

WI25

Applies to: IBDEPTH can not be less than zero.

Severity: Error

Cause: The value of the IBDEPTH field must be a positive number.

Action: Enter a correct value for IBDEPTH.

WI26

Applies to: PCTOPEN must be null when CLASS is not 'SCRN'.

Severity: Error

Cause: The PCTOPEN field is not empty. This is incorrect unless the value of the CLASS field is set to SCRN.

Action: Verify the value of the PCTOPEN and CLASS fields. Correct as appropriate.

WI27

Applies to: SOUA must be null when CLASS is not 'SCRN'.

Severity: Error

Cause: The SOUA field is not empty. This is incorrect for well interval records where the value of the CLASS field is not SCRN.

Action: Verify the value of both fields. Correct as appropriate.

WI28

Applies to: CLASS requires that SDIAM must be null.

Severity: Error

Cause: The SDIAM field is not empty. This is incorrect for well interval records where the value of the CLASS field is set to SEAL, GROUT, FILPK or FOOT.

Action: Verify the value of both fields. Correct as appropriate.

WI29

Applies to: SDIAM can not be null when CLASS is 'BLANK'.

Severity: Error

Cause: The SDIAM field is empty. This is incorrect for well interval records where the value of the CLASS field is set to BLANK.

Action: Verify the value of both fields. Correct as appropriate.

WI30

Applies to: SOUA can not be null when CLASS is 'SCRN'.

Severity: Error

Cause: The SOUA field is empty. This is incorrect for well interval records where the value of the CLASS field is set to SCRN.

Action: Verify the value of both fields. Correct as appropriate.

WI31

Applies to: PCTOPEN can not be null when CLASS is 'SCRN'.

Severity: Error

Cause: The PCTOPEN field is empty. This is incorrect for well interval records where the value of the CLASS field is set to SCRN.

Action: Verify the value of the PCTOPEN and CLASS fields. Correct as appropriate.

WI32

Applies to: SDIAM can not be null when CLASS is 'SCRN'.

Severity: Error

Cause: The SDIAM field is empty. This is incorrect for well interval records where the value of the CLASS field is set to SCRN.

Action: Verify the value of both fields. Correct as appropriate.

WI33

Applies to: SCRNO can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

WI34

Applies to: SCRNO is not a number.

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

WI35

Applies to: SCRNO must be between 1 and 9.

Severity: Error

Cause: The value entered in the SCRNO field must be an integer between 1 and 9.

Action: Correct the value entered in the SCRNO field.

WI36

Applies to: IBDEPTH can not be equal to IEDEPTH.

Severity: Error

Cause: The value of the IBDEPTH and IEDEPTH fields cannot be the same.

Action: Verify that the values entered in the IBDEPTH and IEDEPTH fields are correct.

WI37

Applies to: SCRNO should not normally be greater than 4 for a standard single or double screened well.

Severity: Warning

Cause: The SCRNO is greater than 4.

Action: Enter the correct value for SCRNO.

WM01

Applies to: AFIID does not match submission AFIID.

Severity: Error

Cause: The AFIID field in the current record does not match the project AFIID.

Action: Verify that the correct file is being imported. If it is, correct the AFIID of the erroneous record to match the project AFIID.

WM02

Applies to: LOCID can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

WM04

Applies to: LOGDATE can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

WM05

Applies to: LOGDDATE is not in required format.

Severity: Error

Cause: The value entered in the indicated field cannot be interpreted as a valid date. When you enter an all-numeric date value, ERPTools/PC attempts to interpret it according to the international short date settings found in the Windows(r) control panel. For example, if the international date setting is DMY, the string 4-5-95 will be interpreted as 4-May-95. (NOTE: Due to a bug in the Microsoft Access date conversion functions, the YMD format is not supported in this version).

Action: Check your Windows(r) date settings for the correct format to enter numeric date values. If you still experience problems, use a non-numeric date value (i.e. 4-May-95).

WM06

Applies to: MTYPE is not a valid code.

Severity: Error

Cause: The MTYPE code you have entered was not found in the valid value list WMT

Action: Enter a value provided in this VVL or contact the ERPIMS Help Desk for assistance in finding the correct valid value code

WM07

Applies to: ELEV can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

WM08

Applies to: ELEV is not a number.

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

WM09

Applies to: Numeric value too large. Max value is 99999.99

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field; 99999.99

Action: Verify the accuracy of your entry and correct the data

WM10

Applies to: MPELEV can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

WM11

Applies to: MPELEV is not a number.

Severity: Error

Cause: A non-numeric value was entered in a numeric field.

Action: Enter a numeric value in the indicated field.

WM12

Applies to: Numeric value too large. Max value is 99999.99

Severity: Error

Cause: The numeric value entered exceeds the maximum entry allowed for this field; 99999.99

Action: Verify the accuracy of your entry and correct the data

X**X03**

Applies to: BEGDEPTH should not normally be less than previous record's ENDDEPTH.

Severity: Warning

Cause: The value in the BEGDEPTH field is greater than the value of the ENDDEPTH field in the previous record.

Action: Verify the values of both fields and correct as necessary.

X05

Applies to: Ambient blank record was not found.

Severity: Error

Cause: The ambient blank sample referenced by the ABLOT field does not exist.

Action: Enter a correct value for the ABLOT field.

X06

Applies to: SAMPNO does not start with 1 or is not continuous.

Severity: Error

Cause: The SAMPNO assigned to this record is out of sequence or does not start at one.

Refer to the Data Loader's Handbook for the current AFCEE policy on SACODE assignment.

Action: Modify the SACODEs of the affected records to comply with AFCEE policy.

X15

Applies to: Parent record with the SACODE 'N' is missing.

Severity: Error

Cause: A sample record where the value of the SACODE field is set to RD must have a related sample record with the same key fields where the value of the SACODE field is set to N. The regulatory duplicate record is derived from the normal record.

Action: Verify the value of the AFIID, LOCID, LOGDATE, LOGTIME, MATRIX, SBD, SED, SACODE and SAMPNO fields in both records. Correct as appropriate.

X16

Applies to: Parent record with the SACODE 'MS' is missing.

Severity: Error

Cause: A test record where the value of the SACODE field is set to SD must have a related test record with the same key fields where the value of the SACODE field is set to MS. The spike duplicate record is derived from the matrix spike record.

Action: Verify the value of the AFIID, LOCID, LOGDATE, LOGTIME, MATRIX, SBD, SED, SACODE, SAMPNO, ANMCODE, EXMCODE, LCHMETH, RUN_NUMBER and LABCODE fields in both records. Correct as appropriate.

X17

Applies to: Parent record with the SACODE 'RM' is missing.

Severity: Error

Cause: A test record where the value of the SACODE field is set to KD must have a related test record with the same key fields where the value of the SACODE field is set to RM. The reference material duplicate record is derived from the reference material record.

Action: Verify the value of the AFIID, LOCID, LOGDATE, LOGTIME, MATRIX, SBD, SED, SACODE, SAMPNO, ANMCODE, EXMCODE, LCHMETH, RUN_NUMBER and LABCODE fields in both records. Correct as appropriate.

X19

Applies to: Parent record with the SACODE 'BS' is missing.

Severity: Error

Cause: A test record where the value of the SACODE field is set to BD must have a related test record with the same key fields where the value of the SACODE field is set to BS. The blank spike duplicate record is derived from the blank spike record.

Action: Verify the value of the AFIID, LOCID, LOGDATE, LOGTIME, MATRIX, SBD, SED, SACODE, SAMPNO, ANMCODE, EXMCODE, LCHMETH, RUN_NUMBER and LABCODE fields in both records. Correct as appropriate.

X20

Applies to: Equipment blank record was not found.

Severity: Error

Cause: The equipment blank sample referenced by the EBLOT field does not exist.

Action: Enter a correct value for the EBLOT field.

X21

Applies to: Trip blank record was not found.

Severity: Error

Cause: The trip blank sample referenced by the TBLOT field does not exist.

Action: Enter a correct value for the TBLOT field.

X22

Applies to: SAMPNO does not start with 1 or is not continuous for FIELDQC records.

Severity: Error

Cause: The SAMPNO assigned to this record is out of sequence or does not start at 1. Refer to the Data Loader's Handbook for the current AFCEE policy on SACODE assignment.

Action: Modify the SACODEs of the affected records to comply with AFCEE policy.

X23

Applies to: FIELDQC records are duplicated on the same LOGDATE except for LOGTIME.

Severity: Error

Cause: There is more than one sample record where the value of LOCID is set to FIELDQC with the same LOGDATE, MATRIX, SBD, SED, SACODE and SAMPNO (every key field except for LOGTIME).

Action: Verify the value of the AFIID, LOCID, LOGDATE, MATRIX, SBD, SED, SACODE and SAMPNO fields. Correct as appropriate.

X24

Applies to: Coordinate pairs indicate that these locations are more than 750 miles apart.

Severity: Error

Cause: The entries for the east and north coordinates may be incorrect.

Action: Verify the east and north coordinates and insure they are valid and correct entries. Check to make sure that the coordinate type is the same for this pair of locations.

X25

Applies to: WCI information is usually supplied only for records with the LTCCODE WL, SV, AV, IP, EP and AS.

Severity: Warning

Cause: Usually, WCI records are supplied only for records with the LTCCODE AS, AV, EP, IP, SV, WL.

Action: Ensure the LTCCODE of the LDI record is correct. If so, ignore this warning and provide an explanation in your transmittal letter.

X26

Applies to: MPELEV can not change more than 15 feet from the original measurement.

Severity: Error

Cause: The difference between the MPELEV field in the WCI table and the one in the WMI table is more than 15 feet.

Action: Verify the value of both fields. Correct as appropriate.

X27

Applies to: ELFLAG is 'Y' but WMI record with a different ELEV was not found.

Severity: Error

Cause: No related records were found in the WMI table. If the ELFLAG is set to True, the new elevation must be entered in WMI for this record.

Action: Make sure there is an entry in the Well maintenance table with a modified value in the ELEV field. If elevation has not changed for this record, set the flag to false.

X28

Applies to: MPFLAG is 'Y' but WMI record with a different MPELEV was not found.

Severity: Error

Cause: No related records were found in the WMI table. If the MPFLAG is set to True, the new measuring point elevation must be entered in WMI for this record.

Action: Make sure there is an entry in the Well maintenance table with a modified value in the MPELEV field. If measuring point elevation has not changed for this record, set the flag to false.

X29

Applies to: CASDIAM must be 4 inches smaller than BHDIAM.

Severity: Warning

Cause: The difference between the Casing diameter and borehole diameter is less than 4 inches.

Action: Verify the value of the SDIAM and BHDIAM fields (BHDIAM is in the LDI table). Correct if appropriate.

X30

Applies to: IEDEPTH can not be greater than DEPTH in LDI.

Severity: Error

Cause: The value of the IEDEPTH field is greater than the value of the DEPTH field in the parent location record.

Action: Verify the value of both fields. Correct as appropriate.

X31

Applies to: OBS_LOCATION is not in LDI.

Severity: Error

Cause: A parent location record where the value of the LOCID equals the value of the OBS_LOCATION field was not found.

Action: Enter a correct value in the OBS_LOCATION field.

X32

Applies to: OBS_LOCATION is not in LDI.

Severity: Error

Cause: A parent location record where the value of the LOCID equals the value of the OBS_LOCATION field was not found.

Action: Enter a correct value in the OBS_LOCATION field.

X33

Applies to: Should normally have a parent record in WCI data.

Severity: Warning

Cause: A parent record with the same LOCID does not exist in the WCI table.

Action: Verify the value of the LOCID field. If correct, create the well record in WCI.

X34

Applies to: Must have corresponding data in RTI when RRTYPE is not equal to 'NA'.

Severity: Error

Cause: A record with the same RRTYPE must exist in the RTI table when the value of the value of the RRTYPE field is anything but NA.

Action: Verify the value of the RRTYPE field. If correct, create the technology record in RTI.

X35

Applies to: SDIAM should not normally be less than 2 inches when WTCCODE in WCI is 'MNW'.

Severity: Warning

Cause: The value of the SDIAM field is less than 2. This is incorrect for well records where the value of the WTCCODE field is set to MNW.

Action: Verify the value of both fields. Correct if appropriate.

X36

Applies to: IBDEPTH can not be greater than IEDEPTH.

Severity: Error

Cause: The value of the IBDEPTH field is greater than the value of the IEDEPTH field.

Action: Verify the value of both fields. Correct as appropriate.

X37

Applies to: IEDEPTH can not be greater than TOTDEPTH in WCI when CLASS is not 'FILPK'.

Severity: Error

Cause: The value of the IEDEPTH field is greater than the value of the TOTDEPTH field in the parent well record. This is invalid for all classes except 'FILPK'.

Action: Verify the value of both fields. Correct as appropriate.

X39

Applies to: Coordinate pairs indicate that these locations are less than 1 foot apart.

Severity: Warning

Cause: The distance between the two indicated locations is less than one foot..

Action: Verify the value of the NCOORD and ECOORD fields in both records. Correct as appropriate. If the data is correct, ignore this warning.

X41

Applies to: Should normally have a parent record in WCI data.

Severity: Warning

Cause: A parent record with the same LOCID does not exist in the WCI table.

Action: Verify the value of the LOCID field. If correct, create the well record in WCI.

X42

Applies to: Should normally have a parent record in WCI data.

Severity: Warning

Cause: A parent record with the same LOCID does not exist in the WCI table.

Action: Verify the value of the LOCID field. If correct, create the well record in WCI.

X43

Applies to: Should normally have a parent record in WCI data.

Severity: Warning

Cause: A parent record with the same LOCID does not exist in the WCI table.

Action: Verify the value of the LOCID field. If correct, create the well record in WCI.

X44

Applies to: LTCCODE of parent record in LDI should normally be 'WL'.

Severity: Warning

Cause: The value of the LTCCODE in the parent location record is not WL.

Action: Verify the value of the LOCID and LTCCODE fields in the parent location record.
Correct as appropriate.

X45

Applies to: LTCCODE of parent record in LDI should normally be 'WL'.

Severity: Warning

Cause: The value of the LTCCODE in the parent location record is not WL.

Action: Verify the value of the LOCID and LTCCODE fields in the parent location record.
Correct as appropriate.

X46

Applies to: LTCCODE of parent record in LDI should normally be 'WL'.

Severity: Warning

Cause: The value of the LTCCODE in the parent location record is not WL.

Action: Verify the value of the LOCID and LTCCODE fields in the parent location record.
Correct as appropriate.

X47

Applies to: LTCCODE of parent record in LDI should normally be 'WL'.

Severity: Warning

Cause: The value of the LTCCODE in the parent location record is not WL.

Action: Verify the value of the LOCID and LTCCODE fields in the parent location record.
Correct as appropriate.

X48

Applies to: LTCCODE is 'WL' but WCI record was not found.

Severity: Warning

Cause: The value of the LTCCODE field is set to WL and there are no child records in the WCI table.

Action: Verify the value of the LOCID and LTCCODE fields. If correct, create the well definition records in WCI and WINT.

X50

Applies to: LCHDATE can not be earlier than LOGDATE.

Severity: Error

Cause: The value of the LCHDATE is earlier than the value in the LOGDATE field of the parent sample record.

Action: Verify the value of both fields. Correct as appropriate.

X51

Applies to: RUN_NUMBER does not start with 1 or is not continuous in TEST.

Severity: Error

Cause: Run numbers must start at 1 and increment in a continuous fashion (i.e. 2, 3, 4 ..).

Action: Verify the value of the RUN_NUMBER field for the set of test records with the same AFIID, LOCID, LOGDATE, LOGTIME, MATRIX, SBD, SED, SACODE, SAMPNO, ANMCODE, EXMCODE, LCHMETH and LABCODE. Correct as appropriate.

X52

Applies to: The associated BS or RM parent Test record is missing

Severity: Error

Cause: A parent Test Procedures record was not found for this sample with the same Analytical method, Prep Method, Leachate method, and Run_Number.

Action: Duplicates, replicates and(or) spikes must contain the same key field information in order for them to be linked to each other for QC purposes. Correct either the parent or child records so that the key fields of the parent will match the child. Duplicates, replicates and(or) spikes without parent records may not be submitted.

X53

Applies to: Must have a parent record with the SACODE 'N' in TEST.

Severity: Error

Cause: A test record where the value of the SACODE field is set to FD, FS, FR, LR or MS must have a related test record with the same key fields where the value of the SACODE field is set to N. The indicated record is derived from the normal record.

Action: Verify the value of the AFIID, LOCID, LOGDATE, LOGTIME, MATRIX, SBD, SED, SACODE, SAMPNO, ANMCODE, EXMCODE, LCHMETH, RUN_NUMBER and LABCODE fields in both records. Correct as appropriate.

X55

Applies to: Spike Added cannot be null for MS, SD, BS, BD, FS, RM, or KD samples

Severity: Error

Cause: Spike Added must be supplied for samples with this sacode.

Action: If the an Analyte was not spiked enter 0, otherwise enter the amount spiked.

X56

Applies to: SOUNDING can not be greater than $ABS(WCI.MPELEV - LDI.ELEV) + WCI.TOTDEPTH$.

Severity: Error

Cause: The value of the SOUNDING field is greater than the difference between the MPELEV and the ELEV fields plus the value of the TOTDEPTH field in the parent well record. (NOTE: If available, the most recent values for ELEV and MPELEV in the WMI table are used for this calculation).

Action: Verify the value of the SOUNDING, MPELEV, ELEV, TOTDEPTH, MPFLAG and ELFLAG fields. Correct as appropriate.

X57

Applies to: BEGDATE can not be earlier than ESTDATE.

Severity: Error

Cause: The value of the BEGDATE field is earlier than the value of the ESTDATE in the parent record.

Action: Enter correct values for both fields.

X58

Applies to: BEGDATE can not be earlier than STARTDATE.

Severity: Error

Cause: The value of the BEGDATE field is earlier than the value of the STARTDATE in the parent record.

Action: Enter correct values for both fields.

X59

Applies to: Must have corresponding data in LTX.

Severity: Error

Cause: A record with the same LOCID must exist in the LTX table when the value of the RTTYPE field is set to anything but NA.

Action: Verify the value of the LOCID and RTTYPE fields. If correct, create the cross-reference record in LTX.

X60

Applies to: SCRNO does not start at 1 or is not continuous for this location.

Severity: Error

Cause: Screen numbers must start at 1 and increment in a continuous fashion (i.e., 2, 3, 4 ...).

Action: Verify the value of the SCRNO field for the set of well interval records with the same AFIID and LOCID. Correct as appropriate

X61

Applies to: IBDEPTH of blank casing is greater than IBDEPTH of screen or well foot.

Severity: Error

Cause: A blank casing segment cannot start below the screen or the well foot within the same well interval.

Action: Verify the value of the IBDEPTH and SCRNO fields for the blank casing, screen and well foot segments. Correct as appropriate.

X62

Applies to: IEDEPTH of blank casing is greater than IEDEPTH of screen or well foot.

Severity: Error

Cause: A blank casing segment cannot end below the screen or the well foot within the same well interval.

Action: Verify the value of the IBDEPTH, IEDEPTH and SCRNO fields for the blank casing, screen and well foot segments. Correct as appropriate.

X63

Applies to: IBDEPTH of filter pack is less than IEDEPTH of seal or grout.

Severity: Error

Cause: A filter pack segment cannot start above the seal or grout.

Action: Verify the value of the IBDEPTH, IEDEPTH and SCRNO fields for the filter pack, seal and grout segments. Correct as appropriate.

X64

Applies to: IBDEPTH of filter pack is greater than IBDEPTH of screen.

Severity: Error

Cause: A filter pack segment cannot start below the screen within the same well interval.

Action: Verify the value of the IBDEPTH and SCRNO fields for the filter pack and screen segments. Correct as appropriate.

X65

Applies to: IEDEPTH of filter pack is greater than IEDEPTH of well foot.

Severity: Warning

Cause: A filter pack segment cannot end below the well foot.

Action: Verify the value of the IEDEPTH and SCRNO fields for the filter pack and well foot segments. Correct as appropriate.

X66

Applies to: IBDEPTH of well foot is less than IEDEPTH of screen or blank casing.

Severity: Error

Cause: A well foot segment cannot start above the screen or blank casing.

Action: Verify the value of the IBDEPTH, IEDEPTH and SCRNO fields for the well foot, screen and blank casing segments. Correct as appropriate.

X67

Applies to: IEDEPTH of grout is greater than IBDEPTH of seal or filter pack.

Severity: Error

Cause: A grout segment cannot end below the seal or the filter pack within the same well interval.

Action: Verify the value of the IBDEPTH, IEDEPTH and SCRNO fields for the grout, seal and filter pack segments. Correct as appropriate.

X68

Applies to: IBDEPTH of screen is less than IEDEPTH of seal or grout.

Severity: Error

Cause: A screen segment cannot start above the grout or the seal within the same well interval.

Action: Verify the value of the IBDEPTH, IEDEPTH and SCRNO fields for the screen, seal and grout segments. Correct as appropriate.

X69

Applies to: IEDEPTH of screen is greater than IEDEPTH of filter pack.

Severity: Error

Cause: A screen segment cannot end below the filter pack within the same well interval.

Action: Verify the value of the IEDEPTH and SCRNO fields for the screen and filter pack segments. Correct as appropriate.

X70

Applies to: IBDEPTH of seal is less than IEDEPTH of grout or IBDEPTH of blank casing.

Severity: Error

Cause: A seal segment cannot start above the grout or blank casing within the same well interval.

Action: Verify the value of the IBDEPTH, IEDEPTH and SCRNO fields for the seal, grout and blank casing segments. Correct as appropriate.

X71

Applies to: IEDEPTH of seal is greater than IEDEPTH of blank casing.

Severity: Error

Cause: A seal segment cannot end below the blank casing within the same well interval.

Action: Verify the value of the IEDEPTH and SCRNO fields for the seal and blank casing segments. Correct as appropriate.

X72

Applies to: IBDEPTH is less than IBDEPTH of preceding screened interval.

Severity: Error

Cause: Segments from different screened intervals cannot overlap.

Action: Verify the value of the IBDEPTH, IEDEPTH and SCRNO fields on the indicated record. Correct as appropriate.

X73

Applies to: IBDEPTH of blank casing is less than IEDEPTH of screen for preceding screened interval.

Severity: Error

Cause: A blank casing segment cannot start before the ending depth of a previous screen.

Action: Verify the value of the IBDEPTH, IEDEPTH and SCRNO fields for the blank casing and screen segments. Correct as appropriate.

X74

Applies to: SDIAM is greater than BHDIAM in LDI.

Severity: Error

Cause: The value of the SDIAM field is greater than the value of the BHDIAM field in the parent location record.

Action: Verify the value of both fields. Correct as appropriate.

X75

Applies to: Ground surface elevation cannot change more than 15 feet from original measurement.

Severity: Error

Cause: The difference between the ELEV field in the LDI table and the one in the WINT table is more than 15 feet.

Action: Verify the value of both fields and correct.

X76

Applies to: Derived sample records do not have the same cooler and FIELDQC associations as the parent normal.

Severity: Error

Cause: Derived samples must have values in the FIELDQC association fields (ABLLOT, EBLLOT, TBLLOT and COOLER) if the parent normal does.

Action: Make sure the derived sample has values in the same lot and cooler fields as the parent normal does. These do not have to be the same values as the parent normal.

X77

Applies to: SED is greater than DEPTH in LDI.

Severity: Error

Cause: The value of the SED field is greater than the value of the DEPTH field in the parent location record.

Action: Verify the values of the SED and DEPTH fields. Correct as appropriate.

X78

Applies to: Spike Added must be null for non-surrogate AB, EB, TB, FD, FR, LR, MB, RB, N, or RD samples.

Severity: Error

Cause: Spike Added must be null for Analytes except surrogates with the sacodes AB, EB, TB, FD, FR, LR, MB, RB, N, or RD.

Action: Delete the Spike Added value.

Y**Z****Z01**

Applies to: AFIID does not match submission AFIID.

Severity: Error

Cause: The AFIID field in the current record does not match the project AFIID.

Action: Verify that the correct file is being imported. If it is, correct the AFIID of the erroneous record to match the project AFIID.

Z02

Applies to: ZONEID can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

Z03

Applies to: ZNAME can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

ZL01

Applies to: AFIID does not match submission AFIID.

Severity: Error

Cause: The AFIID field in the current record does not match the project AFIID.

Action: Verify that the correct file is being imported. If it is, correct the AFIID of the erroneous record to match the project AFIID.

ZL02

Applies to: LOCID can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

ZL04

Applies to: ZONEID can not be null.

Severity: Error

Cause: The indicated field is a required field and cannot be empty.

Action: Enter a correct value for the indicated field.

10. ACRONYMS

Acronym	Meaning
AFCEE	Air Force Center for Environmental Excellence
CERCLA	Public Law 96-510, the Comprehensive Environmental Response, Compensation and Liability Act of 1980
DLH	Data Loading Handbook
ERP	Environmental Resources Program
ERPIMS	Environmental Resources Program Information Management System
MAJCOM	Major Commands
MHz	Megahertz
MS	Microsoft
MSC	Mission Support Computer
NCP	National Contingency Plan
PC	Personal Computer
RAM	Random Access Memory
SARA	Public Law 99-499, Superfund Amendments and Reauthorization Act of 1986
SQL	Structured Query Language
VGA	Video Graphics Adapter
VL	Valid Values List
IRP	Installation Restoration Program
IDEF0	Integration Definition for Function Modeling
IDEF1X	Integration Definition for Information Modeling
IRS	Interface Requirements Specification
URL	Uniform Resource Locator

Short Titles of ERPTools/PC Tables (See Section 11 Table Descriptions)					
ATI	LSX	PROJECT	RSX	STU	WMI
CALC	LTD	PUMPINT	RTI	TEST	ZDI
EMI	LTX	PUMPRATE	RTP	TOW	ZLX
GWD	MRI	RESULT	SAMPLE	TRI	
HSU	OU	ROX	SCC	TWI	
LDI	OUC	RSI	SLX	WCI	
LOX	OWL	RSP	SOX	WINT	

11. TABLE DESCRIPTIONS

NOTE: Fields in boldface are required key fields of the table.

11.1 COMMON TABLE FIELDS

All tables will have the following five fields. These are system fields and are unavailable for editing.

Field Name	VVL	Definition
RECNO		Auto-generated number by the system.
VALSTATUS		The validation status of the record.
SUBMDATE		The date the record was submitted.
UPUSER		The last user to insert or edit the record.
UPDATE		The date and time the record was inserted or edited.

11.2 LAB PROJECT TABLES

These are the tables and fields you will see in a Lab project.

11.2.1 SAMPLE (Sample Collection)

Reports information regarding a water, soil, or environmental sampling event.

Field Name	VVL	Definition
LABSAMPID		Laboratory Sample Identification.
MATRIX	VVLMTX	Coded value identifying the sample medium actually being analyzed, (e.g., soil, water, etc.).
LOGDATE		The date the sample was taken.
LOGTIME		The time the sample was taken.
SACODE	VVLSA	A coded value identifying whether the sample is QC or normal and the type is QC.
SAMPNO		This is the numeric portion of the Sample Type.
LOGCODE	VVLLOG	LOGGING COMPANY CODE: Coded value identifying the company performing field tests.
FLDSAMPID		Unique number assigned to the sample in the field.
COCID		Unique identification reference to the chain of custody describing the transport of the sample to the laboratory.
COOLER		The unique number assigned to the cooler transporting the sample.
PARENTFLDID		FLDSAMPID of the parent record
PARENTLABID		LABSAMPID of the parent record
REMARKS		Comment about the sample.

11.2.2 TEST (Test Procedure)

Information on test preparation and procedures for an environmental sample.

Field Name	VVL	Definition
LABSAMPID		Laboratory Sample Identification.
MATRIX	VVLMTX	Coded value identifying the sample medium actually being analyzed, (e.g., soil, water, etc.).
ANMCODE	VVLANM	ANALYTICAL METHOD CODE: Coded value representing the method of analysis of a given parameter.
EXMCODE	VVLEXM	EXTRACTION METHOD CODE: Coded value representing the method used to extract or prepare a sample.
LCHMETH	VVLLCH	Coded value identifying the leachate method.
RUN_NUMBER		This information is stored in the Test Procedure class and is replaced by the use of Test Sequence.
LABCODE	VVLLAB	Analytical Laboratory Code. Coded value identifying the analytical laboratory that performed the analysis of a sample.
EXTDATE		Preparation date is a more general identifier to indicate extractions or other preparation methods. For compatibility with DESCIM.
EXTTIME		Preparation time is a more general identifier to indicate extractions or other preparation methods. For compatibility with DESCIM.
LCHDATE		Date the sample was leached.
LCHTIME		Time the sample was leached.
LCHLOT		The batch designator of an autonomous group of environmental samples and associated QC samples leached together.
ANADATE		Date the sample or extraction is analyzed in the laboratory.
ANATIME		Time the sample or extraction is analyzed in the laboratory.
ANALOT		The batch designator of an autonomous group of environmental samples and associated QC samples analyzed together.
LABLOTCTL		Preparation Lot is a more general identifier to indicate extractions or other preparation methods. Was AFCEE Analytical Batch in ERPTools/LAB.
CALREFID		A coded value that establishes a reference link between environmental and QC samples and their corresponding calibration records. Was IMCID in ERPTools/LAB
BASIS	VVLBAS	Basis. For tissue or solid samples enter whether results are reported on a wet (W) or dry (D) basis.

11.2.3 RESULT (Analytical Result)

Information on analytical results of an environmental sampling test procedure.

Field Name	VVL	Definition
LABSAMPID		Laboratory Sample Identification.
MATRIX	VVLMTX	Coded value identifying the sample medium actually being analyzed, (e.g., soil, water, etc.).
ANMCODE	VVLANM	ANALYTICAL METHOD CODE: Coded value representing the method of analysis of a given parameter.
EXMCODE	VVLEXM	EXTRACTION METHOD CODE: Coded value representing the method used to extract or prepare a sample.
LCHMETH	VVLLCH	Coded value identifying the leachate method.
RUN_NUMBER		This information is stored in the Test Procedure class and is replaced by the use of Test Sequence.
PARLABEL	VVLPAR	PARAMETER LABEL CODE: An abbreviated, common acronym representing a parameter/analyte.
PRCCODE	VVLPRC	PARAMETER CLASS CODE: Coded value identifying a class or group that a parameter is associated with (e.g. ORG, MET, STD, etc.).
PARVQ	VVLPVQ	PARAMETER VALUE QUALIFIER: Coded value qualifying the analytical results field (PARVAL).
PARVAL		PARAMETER VALUE: value of calculated parameter reported in units consistent with UNITMEAS.
PARUN		A value that measures the uncertainty of the analytical test (expressed as + or - some value.).
PRECISION		Number indicating the precision (number of digits after the decimal point) of the results.
SPIKEADDED		Amount that the sample was spiked. In the UNITS field specify the actual units of measure used.
EXPECTED		The target result for a quality control sample or surrogate spike.
SPIKEADDEDPREC		Number indicating the precision (number of digits after the decimal point) of the spike results.
MDL		METHOD DETECTION LIMIT - The smallest quantity of an analyte that can be detected from a prepared sample subject to the applied analytical method.
RL		REPORTING LIMIT - The applicable reporting limit for the project. If the project is following the AFCEE QAPP, the QAPP will give the AFCEE reporting limit or there will be an AFCEE approved, project specific reporting limit.
UNITS	VVLUTM	UNITS OF MEASURE: Units of measure used for the parameter value.
VQ_1C	VVLPVQ	FIRST COLUMN VALUE QUALIFIER: A coded value qualifying the VAL_1C field.
VAL_1C		Field that represents the primary or initial value for a analyte generated from a Gas Chromatography or Gas Chromatography / Mass Spectroscopy results.
FCVALPREC		Number indicating the precision (number of digits after the decimal point) of the results.

Field Name	VVL	Definition
VQ_CONFIRM	VVLPVQ	Code value qualifying the confirming analytical result.
VAL_CONFIRM		VAL_CONFIRM: The CONFIRMING VALUE of a chromatographic analytical result that requires second column confirmation.
CNFVALPREC		Number indicating the precision (number of digits after the decimal point) of the results.
DILUTION		Numeric expression of the amount of dilution required to bring the analyte concentration in the sample into analysis range.
DQTYPE	VVLDQT	A code identifying the type of data qualifier.
EPA_FLAGS		Codes that are assigned during chemistry data validation.
QAPPFLAGS	VVLQAP	A coded value assigned to analytical results during laboratory or validation review.
PERCENT_RECOVERY		Percent of the amount spiked that was recovered (Not Submitted to AFCEE)
RPD		Relative percent difference (Not Submitted to AFCEE)
UPPER_ACCURACY		Upper accuracy established for this analyte (Not Submitted to AFCEE)
LOWER_ACCURACY		Lower accuracy established for this analyte (Not Submitted to AFCEE)

11.3 PRIME PROJECT TABLES

These are the tables and fields you will see in a Prime project.

11.3.1 PROJECT (Contract)

A PC-only table with the contract information needed by ERPTools/PC.

Field	VVL	Definition
PROJECT_NAME		User defined name for the project. This field is normally used to differentiate between quarterly monitoring projects where the AFIID, CONTRACT_ID and DO_ID are the same.
AFIID	VVLAFI	AIR FORCE INSTALLATION IDENTIFICATION: Unique code used to represent an Air Force installation, plant, or base.
CONTRACT		Contract number, consisting of a fiscal year and contract sequence number (i.e., F33615-84-D-4402).
DO		Sequential identifier assigned to the Air Force form "Orders for Supplies and Services."

11.3.2 LDI (Location)

General information about sampling locations.

Field Name	VVL	Definition
LOCID		LOCATION IDENTIFICATION: Unique identifier assigned to a location within a USAF installation where measurements or samples are taken.
LTCCODE	VVLLTC	LOCATION CLASSIFICATION CODE: Coded value describing location where measurements or samples are taken.
LPRCODE	VVLLPR	Location Proximity Code. Coded value indicating whether sampling or measuring location is within or outside the Air Force installation boundaries.
NCOORD		NORTH STATE PLANE COORDINATE: The y-value (North-South) of the distance in feet of a sampling or measuring location from the reference location of known state plane coordinates.
ECOORD		EAST STATE PLANE COORDINATE: The x-value (East-West) of the distance in feet of a sampling or measuring location from the reference location of known state plane coordinates.
CRDTYPE	VVLCRT	The type of coordinate system used.
CRDMETH	VVLCRD	Indicates the method used to determine the location (e.g., survey, GPS, estimated, digitized).
CRDUNITS	VVLUTM	Units of measure of the surveyed northing and easting values.
CRDUN		The expression of the precision of the location coordinates.
ESTDATE		DATE ESTABLISHED: The date that construction of a sampling or measuring location was completed.
ESCCODE	VVLESC	ESTABLISHING COMPANY CODE: Coded value identifying the organization that establishes a sampling or measuring location, typically the prime contractor.
DRLCODE	VVLDRL	DRILLING COMPANY CODE: Coded value identifying the organization that drilled a borehole at a sampling or measuring location. This organization is typically the drilling subcontractor.
EXCCODE	VVLEXC	EXCAVATING COMPANY CODE: Coded value identifying the organization that excavated a test pit at a sampling or measuring location.
CMCCODE	VVLCMC	CONSTRUCTION METHOD CODE: Coded value identifying the method by which a borehole or test pit was constructed (Drilling or Excavation Method).
ELEV		SURFACE ELEVATION: Elevation of ground surface (for groundwater, soil, or sediment sampling) or water surface (for surface water sampling) at a sampling or measuring location.
ELEV METH	VVLELM	Method used in to determine the location's elevation.
ELEV UNITS	VVLUTM	The unit that the elevation was measured.
ELEV UN		The expression of the precision of the location elevation.
ELFLAG		Flag that indicates whether or not more current measurements for the Ground Surface Elevation are available in the Well Maintenance table.

Field Name	VVL	Definition
DEPTH		BOREHOLE DEPTH: The total depth of a borehole (including boreholes drilled to install wells) measured in feet relative to ground surface.
BHDIAM		BOREHOLE DIAMETER: The diameter of a borehole in inches.
BHANGLE		Angle at which borehole was drilled.
BHAZIM		Azimuth (degrees on a compass) of which the borehole was drilled.
DATUM		Identifier representing the geodetic datum used in the survey (e.g., State Plane Coordinate System NAD 1983, Florida Western Zone).
STPZONE	VVLSTZ	The coordinate zone needed in order for the Geodetic Datum attribute to make sense. For Compatibility with DESCIM.
STPPROJ	VVLSTP	Geographic projection used by the state planar system.
UTMZONE	VVLUTZ	The coordinate zone needed in order for the Geodetic Datum attribute to make sense. For Compatibility with DESCIM.
GEOLOG		Contains the reference to any/all geophysical logs created during drilling operations.
LOCDESC		LOCATION DESCRIPTION: Any additional information to describe a sampling or measuring location in text format.

11.3.3 SLX (Location Site Cross Reference)

Information about a site and location that has been selected for ERP study.

Field Name	VVL	Definition
SITEID	VVLGSI	Number that uniquely identifies a site.
LOCID		LOCATION IDENTIFICATION: Unique identifier assigned to a location within a USAF installation where measurements or samples are taken.
GFCCODE	VVLGFC	GEOHYDROLOGIC FLOW CLASSIFICATION: The GFCCODE is a single character that describes the hydrologic relationship between a location and a site.
SPCODE	VVLSPR	A coded value indicating whether the location is in the site, outside the site or background.

11.3.4 SCC (Site Contamination)

Definition of the type of contamination at a site. This is usually based on the preliminary assessment.

Field Name	VVL	Definition
GROUPCODE	VVLANG	GROUP CODE: A unique code that identifies a group of environmental contaminants, (e.g., CHLOR, SOLVENT, PEST).
SITEID	VVLGSI	Number that uniquely identifies a site.

11.3.5 ZDI (Zone)

User defined groupings of sampling locations.

Field Name	VVL	Definition
ZONEID		Unique identifier for a group of individual locations maintained for collective study and evaluation.
ZNAME		Name of the zone.
ZONEDESC		Textual description of the zone and its purpose.

11.3.6 ZLX (Location Zone Cross Reference)

Cross-reference table between sampling locations and zones.

Field Name	VVL	Definition
ZONEID		Unique identifier for a group of individual locations maintained for collective study and evaluation.
LOCID		LOCATION IDENTIFICATION: Unique identifier assigned to a location within a USAF installation where measurements or samples are taken.

11.3.7 MRI (Map Reference)

Description of the physical map of an installation.

Field Name	VVL	Definition
MAPRID		Unique identifier assigned to each map for an installation.
MAPCODE	VVLMAP	Coded value identifying the company responsible for producing a map of a designated area.
MTCCODE	VVLMTC	Coded value identifying the type of map.
MCCCODE	VVLMCC	Coded value delineating the extent to which a reference map covers specified features associated with a site, zone, or entire installation.
MAPSCALE		The drawing scale of a map expressed as inches of drawing per feet of terrain.
LLNORTH		The lower left y-value of a general area of interest.
LLEAST		The lower left x-value of a general area of interest.
URNORTH		The upper right y-value of a general area of interest.
UREAST		The upper right x-value of a general area of interest.
BMDESIG		Code, label, name, etc. of a benchmark.
BMNORTH		The y-value of a map benchmark.
BMEAST		The x-value of a map benchmark.
BMELEV		The ground surface elevation of a map benchmark.
MAPDESC		Textual description of the mapped area.

11.3.8 WCI (Well)

Contains well placement and completion information.

Field Name	VVL	Definition
LOCID		LOCATION IDENTIFICATION: Unique identifier assigned to a location within a USAF installation where measurements or samples are taken.
INSDATE		INSTALLATION DATE: Date that a well casing is installed.
WELCODE	VVLWEL	WELL OWNER CODE: Coded value identifying the owner of a well that is monitored or tested.
WTCCODE	VVLWTC	WELL TYPE CLASSIFICATION CODE: Coded value identifying the type of well in which the measurements are being taken (e.g., slugged, observation).
WCMCODE	VVLWCM	WELL COMPLETION METHOD CODE: Coded value identifying the method used to complete the well or the nature of the openings that allow water to enter the well.
GZCCODE	VVLGZC	Geologic Completion Zone. General Zone hydrologic description of well completion zone.
SAQCODE	VVLSAQ	SOLE SOURCE AQUIFER CODE: Coded value identifying the sole source aquifer in which the well was completed.
WDPROC	VVLWDP	Indicates the type of well development procedures used.
MPELEV		MEASURING POINT ELEVATION: Elevation of the measurement reference point used for groundwater depth level measurements, expressed in feet above Mean Sea Level.
MPFLAG		Flag that indicates whether or not more current Flag measurements for the Point Elevation are available in the Well Maintenance table.
TOTDEPTH		TOTAL CASING DEPTH: Total depth in feet (positive value) below land surface of well casing including screen, blank casing and well foot.
REMARKS		Textual description to provide any additional information necessary to understand the characteristics of the well casing interval.

11.3.9 WINT (Well Construction Interval)

Definition of each well interval.

Field Name	VVL	Definition
LOCID		LOCATION IDENTIFICATION: Unique identifier assigned to a location within a USAF installation where measurements or samples are taken.
CLASS	VVLCLA	Classification of the casing interval. May be seal, screen, well foot, blank, or filter pack.
SCRNO		Identifier used to group segments belonging to the same screened interval.
IBDEPTH		Depth in feet to the top of the described interval.
IEDEPTH		Depth in feet to the bottom of the described interval.
MATERIAL	VVLMAT	The material being used for well casing or construction includes grout, filter pack, screen, well seal, etc.
SDIAM		The inside diameter of the well casing being described. For screen intervals, it is the inside diameter of the screen.
SOUA		SCREEN SLOT SIZE: Vertical size of slot opening in inches.
PCTOPEN		PERCENT OPEN AREA: Percent of screened interval that is open for water flow.
REMARKS		Textual description to provide additional information necessary to understand the characteristics of the well casing interval.

11.3.10 WMI (Well Maintenance)

Historical log of maintenance activities at each well.

Field Name	VVL	Definition
LOCID		LOCATION IDENTIFICATION: Unique identifier assigned to a location within a USAF installation where measurements or samples are taken.
LOGDATE		LOG DATE: Starting date that a sample is collected, a field test is performed, or a QC Sample is created.
MTYPE	VWLWMT	The type of maintenance performed on the well.
MPELEV		MEASURING POINT ELEVATION: Elevation of the measurement reference point used for groundwater depth level measurements, expressed in feet above Mean Sea Level.
ELEV		SURFACE ELEVATION: Elevation of ground surface (for groundwater, soil, or sediment sampling) or water surface (for surface water sampling) at a sampling or measuring location.
REMARKS		Textual description of the well maintenance.

11.3.11 LTD (Lithologic Description)

Lithologic descriptions and classifications of cuttings and cores taken from boreholes and test pits.

Field Name	VVL	Definition
LOCID		LOCATION IDENTIFICATION: Unique identifier assigned to a location within a USAF installation where measurements or samples are taken.
BEGDEPTH		BEGINNING DEPTH: Upper depth of a lithologic stratum, measured below the ground surface in feet (reported as a positive value).
ENDDEPTH		END DEPTH: Lower depth of a lithologic stratum, measured below the ground surface in feet (reported as a positive value).
LOGDATE		LOG DATE: Starting date that a sample is collected, a field test is performed, or a QC sample is created.
LOGCODE	VVLOG	LOGGING COMPANY CODE: Coded value identifying the company performing field tests.
LITHCODE	VVLLTH	LITHOLOGY CODE: 4-Character code indicating lithologic description of layer.
ASTMCODE	VVLAST	ASTM Soil Classification Code. A 2 or 4 character code used in ASTM classification of unconsolidated deposits. Deposits possessing characteristics of two groups are designated by combinations of groups.
HS_UNIT	HSU	Working name given to the unit.
ST_UNIT	STU	Descriptive name given to the unit.
VISDESC		VISUAL DESCRIPTION: Textural and mineralogical description of the material comprising the layer, to augment or qualify the lithologic codes.

11.3.12 STU (Stratigraphic Unit)

Definition of the units in the interpreted stratigraphic column for an installation.

Field Name	VVL	Definition
ST_UNIT		Descriptive name given to the unit
STRATORDER		Number assigned to the unit by the interpreting geologist; unit 1 is the oldest; the number decreases with age.
GRPNAME		Name of the geological group of which the unit is a part.
FORMATION		Name of the geological formation of which the unit is a part.
MBRNAME		Name of the geological member of which the unit is a part.
BEDNAME		Name of the geological bed of which the unit is a part.
SUDESC		Textual description of the stratigraphic unit.

11.3.13 HSU (Hydrostratigraphic Unit)

Data for a body of rock with lateral extent that composes a geologic framework for a hydrologic system.

Field Name	VVL	Definition
HS_UNIT		Working name given to the unit.
HSTYPE	VLLTH	Soil or rock classification for the type of soil/rock that comprises this hydrostratigraphic unit.
HSDESC		Textual description of the hydrostratigraphic unit.

11.3.14 CALC (Calculated Hydrology)

Parameters that are calculated or obtained from aquifer and tracer tests, such as pump or slug tests.

Field Name	VVL	Definition
LOCID		LOCATION IDENTIFICATION: Unique identifier assigned to a location within a USAF installation where measurements or samples are taken.
LOGDATE		The starting date of the aquifer test that is being taken.
LOGTIME		The starting time of the aquifer test that is being taken.
TESTMETH	VLTMT	The type of test that is being performed on the well for which the calculation is being made.
CALCMETH	VLCMT	The type of method used to calculate the results (e.g., Theis, Theim, Chow, Hantush-Jacob, etc.).
CALCPARCODE	VVLCPC	The type of result of the calculation (e.g., transmissivity, hydraulic conductivity, storage coefficient, etc.).
LOGCODE	VVLOG	LOGGING COMPANY CODE: Coded value identifying the company performing field tests.
PARVAL		The value of the calculation result.
UNITS	VVLUTM	The units used for the calculation result.
WELLDIST		The distance from the pumping well to the observation well. Leave this field blank for version 4.0 ERPTools submissions.
WTDEPTH		The estimated depth of the water table used for the calculation; this value would be the top of a confined aquifer.
AQTHICK		The assumed saturated thickness of the aquifer used to perform the calculation.
AQBASEDEPTH		The estimated depth of the aquifer used to make the calculation.
SUPPDATA	VVSPD	Indicates that primary data (e.g., pump test or slug test data) supporting the calculation are available.
REMARKS		Comments concerning the calculation, including definitions or explanations for constants, variables, or assumptions used to derive the result.

11.3.15 GWD (Groundwater Level)

Specific test data to determine the groundwater level over time at a location.

Field Name	VVL	Definition
LOCID		LOCATION IDENTIFICATION: Unique identifier assigned to a location within a USAF installation where measurements or samples are taken.
LOGDATE		LOG DATE: Starting date that a sample is collected, a field test is performed, or a QC sample is created.
LOGTIME		LOG Time: Starting time that a sample is collected, a field test is performed, or a QC sample is created.
IBDEPTH		The upper depth of the interval being tested (commonly corresponds to screen interval).
IEDEPTH		The lower depth of the interval that is being tested (commonly corresponds to screen interval).
LOGCODE	VVLOG	LOGGING COMPANY CODE: Coded value identifying the company performing field tests.
STATDEP		STATIC WATER DEPTH: Depth to water in feet measured from the measuring point.
SOUNDING		SOUNDING: Total depth to the bottom of well in feet at time of test, measured from the reference point.
FTCODE	VVFTC	Coded value indicating whether the liquid level in the well is groundwater or some immiscible nonaqueous liquid.
MEASMETH	VVMMT	Coded value representing the method used to make the measurement.
DRY		Y/N flag indicating whether the well is dry.
REMARKS		Textual comment describing the groundwater measurement level.

11.3.16 ATI (Aquifer Test)

Data describing an aquifer pump, slug or tracer test used to determine aquifer attributes.

Field Name	VVL	Definition
LOCID		LOCATION IDENTIFICATION: Unique identifier assigned to a location within a USAF installation where measurements or samples are taken.
LOGDATE		LOG DATE: Starting date that a sample is collected, a field test is performed, or a QC sample is created.
LOGTIME		LOG TIME: Starting time that a sample is collected, a field test is performed, or a QC sample is created.
LOGCODE	VVLOG	LOGGING COMPANY CODE: Coded value identifying the company performing field tests.
HEADDIR	VVLCHD	The direction of the observed or expected well drawdown trend during a slug or aquifer test. This may be expressed as rising head, falling head, drawdown, residual, or recovery.
SLUGVOL		SLUG VOLUME: The volume of a slug used to displace groundwater during a slug test.
UNITS	VVLUTM	The units in which the volume of the slug was measured.

11.3.17 PUMPRATE (Pump Rate)

Measurements of the change in pump rate over time.

Field Name	VVL	Definition
LOCID		LOCATION IDENTIFICATION: Unique identifier assigned to a location within a USAF installation where measurements or samples are taken.
LOGDATE		LOG DATE: Starting date that a sample is collected, a field test is performed, or a QC sample is created.
LOGTIME		LOG TIME: Starting time that a sample is collected, a field test is performed, or a QC sample is created.
STARTDATE		The initial date the pump rate was measured.
STARTTIME		The initial time the pump rate was measured.
ENDDATE		The ending date the pump rate was measured.
ENDTIME		The ending time the pump rate was measured.
PUMPRATE		The measured rate of the pump.
UNITS	VVLUTM	The units used to measure the pump rate.
REMARKS		Comments describing the pump rate.

11.3.18 TWI (Test Well)

Specific data for pump test wells.

Field Name	VVL	Definition
LOCID		LOCATION IDENTIFICATION: Unique identifier assigned to a location within a USAF installation where measurements or samples are taken.
LOGDATE		LOG DATE: Starting date that a sample is collected, a field test is performed, or a QC Sample is created.
LOGTIME		LOG TIME: Starting time that a sample is collected, a field test is performed, or a QC Sample is created.
TIDEPH		The upper depth of the interval being tested.
BIDEPH		The lower depth of the interval that is being tested.
DEPWAT		Depth to fluid in feet measured from the measuring point.
FTCODE	VVLFTC	Coded value indicating whether the liquid level in the well is groundwater or some immisible nonaqueous liquid.
REMARKS		A textual description to aid in the understanding of the well test.

11.3.19 OWL (Observation Well Water Level)

Well fluid measurements collected during timed intervals.

Field Name	VVL	Definition
LOCID		Name of a location on an installation.
OBS_LOCATION		Name of a location on an installation.
LOGDATE		LOG DATE: Starting date that a sample is collected, a field test is performed, or a QC sample is created.
LOGTIME		LOG TIME: Starting time that a sample is collected, a field test is performed, or a QC sample is created.
MEASDATE		Date the fluid level measurement was taken. Generally, the fluid level will be groundwater.
MEASTIME		Time the fluid level measurement was taken. Generally, the fluid level will be groundwater.
DEPWAT		The depth from the measuring point to the top of the fluid in the well bore. These measurements will include the water level at the beginning of the test (time=0). These measurements are used to calculate drawdown.
FTCODE	VVLFTC	The type of fluid encountered in the well. This would normally be groundwater. If another type of fluid is encountered in the well bore during the test, then it should be noted here and explained in the comments.
WTCCODE	VVLWTC	WELL TYPE CLASSIFICATION CODE: Coded value identifying the type of well in which the measurements are being taken (e.g., slugged, observation).
REMARKS		Comments concerning the drawdown measurements.

11.3.20 TRI (Tracer Injection)

Definition of the tracer fluids injected into a well during well tests.

Field Name	VVL	Definition
LOCID		Name of a location on an installation.
STARTDATE		Date that the tracer test was conducted.
STARTTIME		The time that the tracer injection was started.
ENDTIME		The time that the tracer injection was completed.
TRC_CONC		The value of the concentration of the tracer that was injected into the well.
TRCUNITS	VVLUTM	The units of measurement for the tracer concentration value.
TRCTYPE	VVLTRT	The type of tracer that was used for the tracer test.
TRCVOL		The volume of the tracer that was used for the tracer test.
TRCVOLUNITS	VVLUTM	The units of measurement for the tracer volume.
REMARKS		Textual annotation that aids the understanding of the tracer test.

11.3.21 TOW (Tracer Observation Well)

Information on observation wells sampled during a tracer test.

Field Name	VVL	Definition
LOCID		LOCATION IDENTIFICATION: Unique identifier assigned to a location within a USAF installation where measurements or samples are taken.
STARTDATE		Date that the tracer test was conducted.
STARTTIME		The time that the tracer injection was started.
ENDTIME		The time that the tracer injection was completed.
OBS_LOCATION		Location name for the observation well.
MEASDATE		Date that the observation well was measured.
MEASTIME		Time that the observation well was measured.
TRC_CONC		The value of the concentration of the tracer that was injected into the well.
TRCUNITS	VVLUTM	The units of measurement for the tracer concentration value.

11.3.22 PUMPINT (Pumping Interval)

Definition of the operation of an extraction or injection well over time.

Field Name	VVL	Definition
LOCID		LOCATION IDENTIFICATION: Unique identifier assigned to a location within a USAF installation where measurements or samples are taken.
BEGDATE		The starting date the pumping was performed.
BEGTIME		The starting time the pumping was performed.
ENDDATE		The ending date the pumping was performed.
ENDTIME		The ending time the pumping was performed.
BEGDEPTH		The upper depth of the interval being tested
ENDDEPTH		The lower depth of the interval that is being tested.
LOGCODE	VVLLOG	LOGGING COMPANY CODE: Coded value identifying the company performing field tests.
WTCCODE	VVLWTC	WELL TYPE CLASSIFICATION CODE: Coded value identifying the type of well in which the measurements are being taken (e.g., slugged, observation).
PUMPDEPTH		The depth of the pump.
PUMPINGRATE		The rate the well was pumped.
UNITS	VVLUTM	The units the discharge was measured in (e.g., gal/min).
REMARKS		Comments describing the pumping.

11.3.23 EMI (Environmental Measurement)

Result information for tests that fall outside the category of standard analytical testing.

Field Name	VVL	Definition
LOCID		LOCATION IDENTIFICATION: Unique identifier assigned to a location within a USAF installation where measurements or samples are taken.
LOGDATE		The date the sample was taken.
LOGTIME		The time the sample was taken.
MATRIX	VVLMTX	SAMPLING MATRIX: Coded value identifying the sample medium actually being analyzed (i.e., soil, water, etc.).
SBD		The top of the interval from which the sample was collected or recovered, expressed in feet relative to mean sea level.
SED		If the sample is recovered from an interval, the bottom of the interval the sample was recovered from. Intervals are measured as elevation. Elevation uses mean sea level as datum. Intervals below mean sea level are positive.
ANADATE		The starting date of the sample test. This attribute is used if the samples are related to an aquifer test or tracer test. A series of samples taken at different times can be related using the start date and times.
ANATIME		The starting time of the sample test. This attribute is used if the samples are related to an aquifer test or tracer test.
ANATYPE	VVLANT	The type of test being performed on the sample (e.g., air sampling, water velocity, soil sample, well bore fluid sample, etc.).
PARVAL		The value of the test result.
UNITS	VVLUTM	The units of the result test.
QUALIFIER	VVLEDQ	Data Qualifier.
REMARKS		Comments to clarify the sample test.

11.3.24 SAMPLE (Sample Collection)

Reports information regarding a water, soil, or environmental sampling event.

Field Name	VVL	Definition
LOCID		LOCATION IDENTIFICATION: Unique identifier assigned to a location within a USAF installation where measurements or samples are taken.
LOGDATE		The date the sample was taken.
LOGTIME		The time the sample was taken.
MATRIX	VVLMTX	Coded value identifying the sample medium actually being analyzed, (e.g., soil, water, etc.).
SBD		SAMPLE BEGINNING DEPTH: The upper depth in feet from the ground surface or the water surface at which a sample is collected.
SED		SAMPLE ENDING DEPTH: Lower depth in feet at which a soil sample is collected for analysis, relative to the ground surface.
SACODE	VVLSA	A coded value identifying whether the sample is QC or normal and the type is QC.
SAMPNO		This is the numeric portion of the Sample Type.
LOGCODE	VVLOG	LOGGING COMPANY CODE: Coded value identifying the company performing field tests.
SMCODE	VVLSM	Coded value identifying the sampling method used to collect a sample.
FLDSAMPID		Unique number assigned to the sample in the field.
COCID		Unique identification reference to the chain of custody describing the transport of the sample to the laboratory.
COOLER		The unique number assigned to the cooler transporting the sample.
ABLOT		Ambient Blank Field Lot Identifier.
EBLOT		Equipment blank field lot identifier.
TBLOT		Test Blank Field Lot Identifier.
REMARKS		Comment about the sample.

11.3.25 TEST (Test Procedure)

Information on test preparation and procedures for an environmental sample. The fields in ***BOLD ITALICS*** are a secondary index on this table.

Field Name	VVL	Definition
RECNO (PK)		This is a system generated number
SAMPLE_RECNO		This is the RECNO from the parent Sample record
ANMCODE	VVLANM	ANALYTICAL METHOD CODE: Coded value representing the method of analysis of a given parameter.
EXMCODE	VVLEXM	EXTRACTION METHOD CODE: Coded value representing the method used to extract or prepare a sample.
LCHMETH	VVLLCH	Coded value identifying the leachate method.
LABCODE	VVLLAB	Analytical Laboratory Code. Coded value identifying the analytical laboratory that performed the analysis of a sample.
RUN_NUMBER		This information is stored in the Test Procedure class and is replaced by the use of Test Sequence.
LABSAMPID		Laboratory Sample Identification.
EXTDATE		Preparation date is a more general identifier to indicate extractions or other preparation methods. For compatibility with DESCIM.
EXTTIME		Preparation time is a more general identifier to indicate extractions or other preparation methods. For compatibility with DESCIM.
LCHDATE		Date the sample was leached.
LCHTIME		Time the sample was leached.
LCHLOT		The batch designator of an autonomous group of environmental samples and associated QC samples leached together.
ANADATE		Date the sample or extraction is analyzed in the laboratory.
ANATIME		Time the sample or extraction is analyzed in the laboratory.
ANALOT		The batch designator of an autonomous group of environmental samples and associated QC samples analyzed together.
LABLOTCTL		Preparation Lot is a more general identifier to indicate extractions or other preparation methods.
CALREFID		A coded value that establishes a reference link between environmental and QC samples and their corresponding calibration records.
RTTYPE	VVLRTT	Type of remediation technology (e.g., slurry wall, in situ Type vitrification, bio-reactor).
BASIS	VVLBAS	Basis. For tissue or solid samples enter whether results are reported on a wet (W) or dry (D) basis.

11.3.26 RESULT (Analytical Result)

Information on analytical results of an environmental sampling test procedure.

Field Name	VVL	Definition
TEST_RECNO		This is the RECNO from the parent Test record
PARLABEL	VVLPAR	PARAMETER LABEL CODE: An abbreviated, common acronym representing a parameter/analyte.
PRCCODE	VVLPRC	PARAMETER CLASS CODE: Coded value identifying a class or group that a parameter is associated with (e.g. ORG, MET, STD, etc.).
PARVQ	VVLPVQ	PARAMETER VALUE QUALIFIER: Coded value qualifying the analytical results field (PARVAL).
PARVAL		PARAMETER VALUE: value of calculated parameter reported in units consistent with UNITMEAS.
PARUN		A value that measures the uncertainty of the analytical test (expressed as + or - some value.).
PRECISION		Number indicating the precision (number of digits after the decimal point) of the results.
EXPECTED		The target result for a quality control sample or surrogate spike.
EVPREC		Number indicating the precision (number of digits after the decimal point) of the results.
MDL		METHOD DETECTION LIMIT - The smallest quantity of an analyte that can be detected from a prepared sample subject to the applied analytical method.
RL		REPORTING LIMIT - The applicable reporting limit for the project. If the project is following the AFCEE QAPP, the QAPP will give the AFCEE reporting limit or there will be an AFCEE approved, project specific reporting limit.
UNITS	VVLUTM	UNITS OF MEASURE: Units of measure used for the parameter value.
VQ_1C	VVLPVQ	FIRST COLUMN VALUE QUALIFIER: A coded value qualifying the VAL_1C field.
VAL_1C		Field that represents the primary or initial value for a analyte generated from a Gas Chromatography or Gas Chromatography / Mass Spectroscopy results.
FCVALPREC		Number indicating the precision (number of digits after the decimal point) of the results.
VQ_CONFIRM	VVLPVQ	Code value qualifying the confirming analytical result.
VAL_CONFIRM		VAL_CONFIRM: The CONFIRMING VALUE of a chromatographic analytical result that requires second column confirmation.
CNFVALPREC		Number indicating the precision (number of digits after the decimal point) of the results.
DILUTION		Numeric expression of the amount of dilution required to bring the analyte concentration in the sample into analysis range.
DQTYPE	VVLDQT	A code identifying the type of data qualifier.
EPA_FLAGS		Codes that are assigned during chemistry data validation.

Field Name	VVL	Definition
QAPPFLAGS	VVLQAP	A coded value assigned to analytical results during laboratory or validation review.
PERCENT_RECOVERY		Percent of the amount spiked that was recovered (Not Submitted to AFCEE)
RPD		Relative percent difference (Not Submitted to AFCEE)
UPPER_ACCURACY		Upper accuracy established for this analyte (Not Submitted to AFCEE)
LOWER_ACCURACY		Lower accuracy established for this analyte (Not Submitted to AFCEE)

11.3.27 OU (Operable Unit)

Definition of the remedial action activity.

Field Name	VVL	Definition
OUCODE		A coded value representing the Operable Unit Name. Used as part of the primary key.
OUNAME		Name of the operable unit.
OUDESC		Textual description of the Operable Unit.

11.3.28 OUC (Operable Unit Contaminant)

Type of contaminant being treated by the operable unit.

Field Name	VVL	Definition
OUCODE		A coded value representing the Operable Unit Name. Used as part of the primary key.
GROUPCODE	VVLANG	GROUP CODE: A unique code that identifies a group of environmental contaminants, (e.g. CHLOR, SOLVENT, PEST).
MATRIX	VVLMTY	SAMPLING MATRIX: Coded value identifying the sample medium actually being analyzed, (i.e., soil, water, etc.).

11.3.29 SOX (Site and Operable Unit Cross Reference)

Cross-reference table between operable units and sites.

Field Name	VVL	Definition
SITEID	VVLGSI	Number that uniquely identifies a site.
OUCODE		A coded value representing the Operable Unit Name. Used as part of the primary key.

11.3.30 LOX (Location and Operable Unit Cross Reference)

Cross-reference table between sampling locations and operable units.

Field Name	VVL	Definition
LOCID		LOCATION IDENTIFICATION: Unique identifier assigned to a location within a USAF installation where measurements or samples are taken.
OUCODE		A coded value representing the Operable Unit Name. Used as part of the primary key.

11.3.31 RSI (Remediation System)

Series of remediation technologies that work in concert .

Field Name	VVL	Definition
RSID		User defined name for the Remediation System. Used as part of the primary key.
RSSTAGE	VVLRSS	Type of remediation system (e.g., treatability study, pilot study, field demo, full-scale remediation).
RSNAME		Name of the remediation system.
RSDESC		Textual description of the Remediation Train.

11.3.32 RSP (Remediation System Performance)

Information about the effectiveness of the remediation system.

Field Name	VVL	Definition
RSID		User defined name for the Remediation System. Used as part of the primary key.
RSSTAGE	VVLRSS	Type of remediation system (e.g., treatability study, pilot study, field demo, full-scale remediation).
BEGDATE		Beginning date of the remediation.
ENDDATE		Ending date of the remediation.
PARAMETER	VVLPRF	Performance parameter (e.g. Destroyed mass, extracted mass, concentration, collection frequency).
PARVAL		PARAMETER VALUE: value of calculated parameter reported in units consistent with UNITMEAS.
PARUN		A value that measures the uncertainty of the measurement (expressed as + or - some value).
UNITS	VVLUTR	UNITS OF MEASURE: Units of measure associated with a record.
REMARKS		Textual description of parameter and result.

11.3.33 RSX (Remediation and Site Cross Reference)

Cross-reference table between remediation trains and sites.

Field Name	VVL	Definition
SITEID	VVLGSI	Number that uniquely identifies a site.
RSID		User defined name for the Remediation System. Used as part of the primary key.
RSSTAGE	VVLRSS	Type of remediation system (e.g., treatability study, pilot study, field demo, full-scale remediation).

11.3.34 LSX (Location and Remediation System Cross Reference)

Cross-reference table between locations and remediation systems.

Field Name	VVL	Definition
LOCID		LOCATION IDENTIFICATION: Unique identifier assigned to a location within a USAF installation where measurements or samples are taken.
RSID		User defined name for the Remediation System. Used as part of the primary key.
RSSTAGE	VVLRSS	Type of remediation system (e.g., treatability study, pilot study, field demo, full-scale remediation).

11.3.35 ROX (Remediation and Operable Unit Cross Reference)

Cross-reference table between operable units and remediation trains.

Field Name	VVL	Definition
OUCODE		A coded value representing the Operable Unit Name. Used as part of the primary key.
RSID		User defined name for the Remediation System. Used as part of the primary key.
RSSTAGE	VVLRSS	Type of remediation system (e.g., treatability study, pilot study, field demo, full-scale remediation).

11.3.36 RTI (Remediation Technology)

Definition of a discrete remediation activity.

Field Name	VVL	Definition
RSID		User defined name for the Remediation System. Used as part of the primary key.
RSSTAGE	VVLRSS	Type of remediation system (e.g., treatability study, pilot study, field demo, full-scale remediation).
RTID		User defined name for the Remediation Technology. Used as part of the primary key.
RTTYPE	VVLRTT	Type of remediation technology (e.g., slurry wall, in situ Type vitrification, bio-reactor).
RTNAME		Name of the remedial Technology.
RTCLASS	VVLRTC	A coded value representing the Remediation Technology Class (in-situ, ex-situ or mixed).
GROUPCODE	VVLANG	GROUP CODE: A unique code that identifies a group of environmental contaminants, (e.g., CHLOR, SOLVENT, PEST).
MEDIA	VVLMED	Coded value identifying the sample medium actually being treated, (i.e., soil, water, etc.).
ESTDATE		Date the construction of the remediation technology was complete.
STARTDATE		Date the remediation technology started operating.
RTDESC		Textual description of the remedial unit.

11.3.37 RTP (Remediation Technology Performance)

Information about the effectiveness of the remediation technology.

Field Name	VVL	Definition
RSID		User defined name for the Remediation System. Used as part of the primary key.
RSSTAGE	VVLRSS	Type of remediation system (e.g., treatability study, pilotstudy, field demo, full-scale remediation).
RTID		User defined name for the Remediation Technology. Used as part of the primary key.
RTTYPE	VVLR TT	Type of remediation technology (e.g., slurry wall, in situ Type vitrification, bio-reactor).
BEGDATE		Beginning date of the remediation.
ENDDATE		Ending date of the remediation.
PARAMETER	VVLRPF	Performance parameter (e.g. Destroyed mass, extracted mass, concentration, collection frequency).
PARVAL		PARAMETER VALUE: value of calculated parameter reported in units consistent with UNITMEAS.
PARUN		A value that measures the uncertainty of the measurement (expressed as + or - some value).
UNITS	VVLUTR	UNITS OF MEASURE: Units of measure associated with a record.
REMARKS		Textual description of parameter and result.

11.3.38 LTX (Location Remediation Technology)

Cross-reference table between locations and remediation technologies.

Field Name	VVL	Definition
LOCID		LOCATION IDENTIFICATION: Unique identifier assigned to a location within a USAF installation where measurements or samples are taken.
RSID		User defined name for the Remediation System. Used as part of the primary key.
RSSTAGE	VVLRSS	Type of remediation system (e.g., treatability study, pilot study, field demo, full-scale remediation).
RTID		User defined name for the Remediation Technology. Used as part of the primary key.
RTTYPE	VVLR TT	Type of remediation technology (e.g., slurry wall, in situ Type vitrification, bio-reactor).

12. IMPORT/EXPORT SPECIFICATIONS

The following Data Loading Handbook Version 5.0 tables lay out the import specification used by ERPTools/PC. Only those tables that will be part of electronic data submissions are shown.

The Data Type column indicates what kind of data is expected during import. Below is a list of the data types and a short description of each one.

Data Type	Description
B	Boolean (Y or N).
C	Character – any Alpha-numeric character is allowed.
D	Date (DD-MMM-YYYY format, Ex: 12-JUN-2001).
F	Floating Point Number (With a Decimal – see the Allowed Decimals column).
N	Number (No Decimals).
T	Time (hhnn format Ex: 1423).

Figure 12-1 Data Types

12.1 LAB PROJECT IMPORT/EXPORT SPECIFICATION

The Lab Project Import/Export specification is new to DLH ver 5.

12.1.1 SAMPLE (Lab Projects Sample Collection)

Reports information regarding a water, soil, or environmental sampling event.

Field Name	Data Type	Start	End	Length	Allowed Decimals
LABSAMPID	C	1	20	20	0
MATRIX	C	22	23	2	0
LOGDATE	D	25	35	11	0
LOGTIME	T	37	40	4	0
SACODE	C	42	43	2	0
SAMPNO	N	45	46	2	0
LOGCODE	C	48	51	4	0
FLDSAMPID	C	53	82	30	0
COCID	C	84	95	12	0
PARENTFLDID	C	97	126	30	0
PARENTLABID	C	128	147	20	0
REMARKS	C	149	388	240	0

12.1.2 TEST (Lab Projects Test Procedure)

Information on test preparation and procedures for an environmental sample.

Field Name	Data Type	Start	End	Length	Allowed Decimals
LABSAMPID	C	1	20	20	0
MATRIX	C	22	23	2	0
ANMCODE	C	25	31	7	0
EXMCODE	C	33	39	7	0
LCHMETH	C	41	47	7	0
RUN_NUMBER	N	49	50	2	0
LABCODE	C	52	55	4	0
EXTDATE	D	57	67	11	0
EXTTIME	T	69	72	4	0
LCHDATE	D	74	84	11	0
LCHTIME	T	86	89	4	0
LCHLOT	C	91	100	10	0
ANADATE	D	102	112	11	0
ANATIME	T	114	117	4	0
ANALOT	C	119	128	10	0
LABLOTCTL	C	130	139	10	0
BASIS	C	141	141	1	0
CALREFID	C	143	152	10	0

12.1.3 RESULT (Lab Projects Analytical Result)

Information on analytical results of an environmental sampling test procedure.

Field Name	Data Type	Start	End	Length	Allowed Decimals
LABSAMPID	C	1	20	20	0
MATRIX	C	22	23	2	0
ANMCODE	C	25	31	7	0
EXMCODE	C	33	39	7	0
LCHMETH	C	41	47	7	0
RUN_NUMBER	N	49	50	2	0
PARLABEL	C	52	63	12	0
PRCCODE	C	65	67	3	0
PARVQ	C	69	70	2	0
PARVAL	F	72	86	15	4
PARUN	F	88	100	13	4
PRECISION	N	102	102	1	0
SPIKEADDED	F	104	118	15	4
EXPECTED	F	120	134	15	4
SPIKEADDEDPREC	N	136	136	1	0
MDL	F	138	152	15	4
RL	F	154	168	15	4
UNITS	C	170	179	10	0
VQ_1C	C	181	182	2	0
VAL_1C	F	184	198	15	4
FCVALPREC	N	200	200	1	0
VQ_CONFIRM	C	202	203	2	0
VAL_CONFIRM	F	205	219	15	4
CNFVALPREC	N	221	221	1	0
DILUTION	F	223	235	13	4
DQTYPE	C	237	238	2	0
EPA_FLAGS	C	240	245	6	0
QAPPFLAGS	C	247	248	2	0
PERCENT_RECOVERY	N	250	252	3	0
RPD	N	254	256	3	0
UPPER_ACCURACY	N	258	260	3	0
LOWER_ACCURACY	N	262	264	3	0

12.2 PRIME PROJECT IMPORT/EXPORT SPECIFICATION

The Prime Project Import/Export specification has changed since DLH ver 4. The columns that have changed are indicated by a note number in the Changed column and a description of what changed is in the notes following the table.

12.2.1 PROJECT (Contract)

A PC-only table with the contract information needed by ERPTools/PC. This information is only included in a submission file. It cannot be exported or imported for local use.

Field Name	Data Type	Start	End	Length	Allowed Decimals	Changed
PROJECT_NAME	C	1	16	16	0	
AFIID	C	18	22	5	0	
CONTRACT	C	24	39	16	0	
DO	C	41	44	4	0	
SUBMDATE	D	46	56	11	0	
SUBM_GROUP	N	58	58	1	0	
HANDBOOK	C	60	62	3	0	
VERSION	C	64	71	8	0	

12.2.2 LDI (Location)

General information about sampling locations.

Field Name	Data Type	Start	End	Length	Allowed Decimals	Changed
AFIID	C	1	5	5	0	
LOCID	C	7	21	15	0	
LTCCODE	C	23	24	2	0	
LPRCODE	C	26	26	1	0	
NCOORD	F	28	38	11	2	
ECOORD	F	40	50	11	2	
CRDTYPE	C	52	54	3	0	
CRDMETH	C	56	60	5	0	
CRDUNITS	C	62	71	10	0	
CRDUN	F	73	79	7	3	
ESTDATE	D	81	91	11	0	
ESCCODE	C	93	96	4	0	
DRLCODE	C	98	101	4	0	
EXCCODE	C	103	106	4	0	
CMCCODE	C	108	109	2	0	
ELEV	F	111	118	8	2	
ELEVMETH	C	120	124	5	0	
ELEVUNITS	C	126	135	10	0	
ELEVUN	F	137	143	7	3	
ELFLAG	B	145	145	1	0	
DEPTH	F	147	154	8	2	
BHDIAM	F	156	160	5	2	
BHANGLE	F	162	167	6	2	
BHAZIM	F	169	175	7	2	
DATUM	C	177	188	12	0	
STPZONE	C	190	194	5	0	
STPPROJ	C	196	200	5	0	
UTMZONE	C	202	206	5	0	
GEOLOG	C	208	242	35	0	
LOCDESC	C	244	483	240	0	

12.2.3 SLX (Location Site Cross Reference)

Information about a site and location that has been selected for ERP study.

Field Name	Data Type	Start	End	Length	Allowed Decimals	Changed
AFIID	C	1	5	5	0	
SITEID	N	7	9	3	0	
LOCID	C	11	25	15	0	
GFCCODE	C	27	27	1	0	
SPCODE	C	29	29	1	0	

12.2.4 SCC (Site Contamination)

Definition of the type of contamination at a site. This is usually based on the preliminary assessment.

Field Name	Data Type	Start	End	Length	Allowed Decimals	Changed
AFIID	C	1	5	5	0	
GROUPCODE	C	7	16	10	0	
SITEID	N	18	20	3	0	

12.2.5 ZDI (Zone)

User defined groupings of sampling locations.

Field Name	Data Type	Start	End	Length	Allowed Decimals	Changed
AFIID	C	1	5	5	0	
ZONEID	C	7	16	10	0	
ZNAME	C	18	52	35	0	
ZONEDESC	C	54	293	240	0	

12.2.6 ZLX (Location Zone Cross Reference)

Cross-reference table between sampling locations and zones.

Field Name	Data Type	Start	End	Length	Allowed Decimals	Changed
AFIID	C	1	5	5	0	
ZONEID	C	7	16	10	0	
LOCID	C	18	32	15	0	

12.2.7 MRI (Map Reference)

Description of the physical map of an installation.

Field Name	Data Type	Start	End	Length	Allowed Decimals	Changed
AFIID	C	1	5	5	0	
MAPRID	C	7	14	8	0	
MAPCODE	C	16	19	4	0	
MTCCODE	C	21	24	4	0	
MCCCODE	C	26	26	1	0	
MAPSCALE	N	28	31	4	0	
LLNORTH	N	33	40	8	0	
LLEAST	N	42	49	8	0	
URNORTH	N	51	58	8	0	
UREAST	N	60	67	8	0	
BMDESIG	C	69	88	20	0	
BMNORTH	F	90	100	11	2	
BMEAST	F	102	112	11	2	
BMELEV	F	114	121	8	2	
MAPDESC	C	123	362	240	0	

12.2.8 WCI (Well)

Contains well placement and completion information.

Field Name	Data Type	Start	End	Length	Allowed Decimals	Changed
AFIID	C	1	5	5	0	
LOCID	C	7	21	15	0	
INSDATE	D	23	33	11	0	
WELCODE	C	35	38	4	0	
WTCCODE	C	40	42	3	0	
WCMCODE	C	44	45	2	0	
GZCCODE	C	47	47	1	0	
SAQCODE	C	49	52	4	0	
WDPROC	C	54	58	5	0	
MPELEV	F	60	67	8	2	
MPFLAG	B	69	69	1	0	
TOTDEPTH	F	71	77	7	2	
REMARKS	C	79	318	240	0	

12.2.9 WINT (Well Construction Interval)

Definition of each well interval.

Field Name	Data Type	Start	End	Length	Allowed Decimals	Changed
AFIID	C	1	5	5	0	
LOCID	C	7	21	15	0	
IBDEPTH	F	23	30	8	2	
IEDEPTH	F	32	39	8	2	
CLASS	C	41	45	5	0	
SCRNO	N	47	47	1	0	
MATERIAL	C	49	51	3	0	
SDIAM	F	53	58	6	2	
SOUA	F	60	65	6	3	
PCTOPEN	F	67	72	6	2	
REMARKS	C	74	313	240	0	

12.2.10 WMI (Well Maintenance)

Historical log of maintenance activities at each well.

Field Name	Data Type	Start	End	Length	Allowed Decimals	Changed
AFIID	C	1	5	5	0	
LOCID	C	7	21	15	0	
LOGDATE	D	23	33	11	0	
MTYPE	C	35	39	5	0	
MPELEV	F	41	48	8	2	
ELEV	F	50	57	8	2	
REMARKS	C	59	298	240	0	

12.2.11 LTD (Lithologic Description)

Lithologic descriptions and classifications of cuttings and cores taken from boreholes and test pits.

Field Name	Data Type	Start	End	Length	Allowed Decimals	Changed
AFIID	C	1	5	5	0	
LOCID	C	7	21	15	0	
BEGDEPTH	F	23	30	8	2	
ENDDEPTH	F	32	39	8	2	
LOGDATE	D	41	51	11	0	
LOGCODE	C	53	56	4	0	
LITHCODE	C	58	61	4	0	
ASTMCODE	C	63	66	4	0	
HS_UNIT	C	68	92	25	0	
ST_UNIT	C	94	113	20	0	
VISDESC	C	115	354	240	0	

12.2.12 STU (Stratigraphic Unit)

Definition of the units in the interpreted stratigraphic column for an installation.

Field Name	Data Type	Start	End	Length	Allowed Decimals	Changed
AFIID	C	1	5	5	0	
ST_UNIT	C	7	26	20	0	
STRATORDER	N	28	30	3	0	
GRPNAME	C	32	51	20	0	
FORMATION	C	53	72	20	0	
MBRNAME	C	74	93	20	0	
BEDNAME	C	95	114	20	0	
SUDESC	C	116	355	240	0	

12.2.13 HSU (Hydrostratigraphic Unit)

Data for a body of rock with lateral extent that composes a geologic framework for a hydrologic system.

Field Name	Data Type	Start	End	Length	Allowed Decimals	Changed
AFIID	C	1	5	5	0	
HS_UNIT	C	7	31	25	0	
HSTYPE	C	33	36	4	0	
HSDDESC	C	38	277	240	0	

12.2.14 CALC (Calculated Hydrology)

Parameters that are calculated or obtained from aquifer and tracer tests, such as pump or slug tests.

Field Name	Data Type	Start	End	Length	Allowed Decimals	Changed
AFIID	C	1	5	5	0	
LOCID	C	7	21	15	0	
LOGDATE	D	23	33	11	0	
LOGTIME	T	35	38	4	0	
TESTMETH	C	40	44	5	0	
CALCMETH	C	46	50	5	0	
CALCPARCODE	C	52	56	5	0	
LOGCODE	C	58	61	4	0	
PARVAL	F	63	74	12	6	
UNITS	C	76	85	10	0	
WELLDIST	F	87	93	7	2	
WTDEPTH	F	95	102	8	2	
AQTHICK	F	104	111	8	2	
AQBASEDEPTH	F	113	120	8	2	
SUPPDATA	C	122	124	3	0	
REMARKS	C	126	365	240	0	

12.2.15 GWD (Groundwater Level)

Specific test data to determine the groundwater level over time at a location.

Field Name	Data Type	Start	End	Length	Allowed Decimals	Changed
AFIID	C	1	5	5	0	
LOCID	C	7	21	15	0	
LOGDATE	D	23	33	11	0	
LOGTIME	T	35	38	4	0	
IBDEPTH	F	40	49	10	2	
IEDEPTH	F	51	60	10	2	
LOGCODE	C	62	65	4	0	
STATDEP	F	67	74	8	2	
SOUNDING	F	76	83	8	2	
FTCODE	C	85	85	1	0	
MEASMETH	C	87	91	5	0	
DRY	C	93	93	1	0	
REMARKS	C	95	334	240	0	

12.2.16 ATI (Aquifer Test)

Data describing an aquifer pump, slug or tracer test used to determine aquifer attributes.

Field Name	Data Type	Start	End	Length	Allowed Decimals	Changed
AFIID	C	1	5	5	0	
LOCID	C	7	21	15	0	
LOGDATE	D	23	33	11	0	
LOGTIME	T	35	38	4	0	
LOGCODE	C	40	43	4	0	
HEADDR	C	45	47	3	0	
SLUGVOL	F	49	55	7	2	
UNITS	C	57	66	10	0	

12.2.17 PUMPRATE (Pump Rate)

Measurements of the change in pump rate over time.

Field Name	Data Type	Start	End	Length	Allowed Decimals	Changed
AFIID	C	1	5	5	0	
LOCID	C	7	21	15	0	
LOGDATE	D	23	33	11	0	
LOGTIME	T	35	38	4	0	
STARTDATE	D	40	50	11	0	
STARTTIME	T	52	55	4	0	
ENDDATE	D	57	67	11	0	
ENDTIME	T	69	72	4	0	
PUMPRATE	F	74	81	8	2	
UNITS	C	83	92	10	0	
REMARKS	C	94	333	240	0	

12.2.18 TWI (Test Well)

Specific data for pump test wells.

Field Name	Data Type	Start	End	Length	Allowed Decimals	Changed
AFIID	C	1	5	5	0	
LOCID	C	7	21	15	0	
LOGDATE	D	23	33	11	0	
LOGTIME	T	35	38	4	0	
TIDDEPTH	F	40	49	10	2	
BIDDEPTH	F	51	60	10	2	
DEPWAT	F	62	71	10	2	
FTCODE	C	73	73	1	0	
REMARKS	C	75	314	240	0	

12.2.19 OWL (Observation Well Water Level)

Well fluid measurements collected during timed intervals.

Field Name	Data Type	Start	End	Length	Allowed Decimals	Changed
AFIID	C	1	5	5	0	
LOCID	C	7	21	15	0	
OBS_LOCATION	C	23	37	15	0	
LOGDATE	D	39	49	11	0	
LOGTIME	T	51	54	4	0	
MEASDATE	D	56	66	11	0	
MEASTIME	T	68	71	4	0	
DEPWAT	F	73	82	10	2	
FTCODE	C	84	84	1	0	
WTCCODE	C	86	88	3	0	
REMARKS	C	90	329	240	0	

12.2.20 TRI (Tracer Injection)

Definition of the tracer fluids injected into a well during well tests.

Field Name	Data Type	Start	End	Length	Allowed Decimals	Changed
AFIID	C	1	5	5	0	
LOCID	C	7	21	15	0	
STARTDATE	D	23	33	11	0	
STARTTIME	T	35	38	4	0	
ENDTIME	T	40	43	4	0	
TRC_CONC	F	45	52	8	2	
TRCUNITS	C	54	63	10	0	
TRCTYPE	C	65	69	5	0	
TRCVOL	F	71	78	8	2	
TRCVOLUNITS	C	80	89	10	0	
REMARKS	C	91	330	240	0	

12.2.21 TOW (Tracer Observation Well)

Information on observation wells sampled during a tracer test.

Field Name	Data Type	Start	End	Length	Allowed Decimals	Changed
AFIID	C	1	5	5	0	
LOCID	C	7	21	15	0	
STARTDATE	D	23	33	11	0	
STARTTIME	T	35	38	4	0	
ENDTIME	T	40	43	4	0	
OBS_LOCATION	C	45	59	15	0	
MEASDATE	D	61	71	11	0	
MEASTIME	T	73	76	4	0	
TRC_CONC	F	78	85	8	2	
TRCUNITS	C	87	96	10	0	

12.2.22 PUMPINT (Pumping Interval)

Definition of the operation of an extraction or injection well over time.

Field Name	Data Type	Start	End	Length	Allowed Decimals	Changed
AFIID	C	1	5	5	0	
LOCID	C	7	21	15	0	
BEGDATE	D	23	33	11	0	
BEGTIME	T	35	38	4	0	
ENDDATE	D	40	50	11	0	
ENDTIME	T	52	55	4	0	
BEGDEPTH	F	57	66	10	2	
ENDDEPTH	F	68	77	10	2	
LOGCODE	C	79	82	4	0	
WTCCODE	C	84	86	3	0	
PUMPDEPTH	F	88	97	10	2	
PUMPINGRATE	F	99	105	7	1	
UNITS	C	107	116	10	0	
REMARKS	C	118	357	240	0	

12.2.23 EMI (Environmental Measurement)

Result information for tests that fall outside the category of standard analytical testing.

Field Name	Data Type	Start	End	Length	Allowed Decimals	Changed
AFIID	C	1	5	5	0	
LOCID	C	7	21	15	0	
LOGDATE	D	23	33	11	0	
LOGTIME	T	35	38	4	0	
MATRIX	C	40	41	2	0	
SBD	F	43	50	8	2	
SED	F	52	59	8	2	
ANADATE	D	61	71	11	0	
ANATIME	T	73	76	4	0	
ANATYPE	C	78	82	5	0	
PARVAL	F	84	91	8	2	
UNITS	C	93	102	10	0	
QUALIFIER	C	104	105	2	0	1
REMARKS	C	107	346	240	0	

1. New field.

12.2.24 SAMPLE (Sample Collection)

Reports information regarding a water, soil, or environmental sampling event.

Field Name	Data Type	Start	End	Length	Allowed Decimals	Changed
AFIID	C	1	5	5	0	
LOCID	C	7	21	15	0	
LOGDATE	D	23	33	11	0	
LOGTIME	T	35	38	4	0	
MATRIX	C	40	41	2	0	
SBD	F	43	50	8	2	
SED	F	52	59	8	2	
SACODE	C	61	62	2	0	
SAMPNO	N	64	65	2	0	
LOGCODE	C	67	70	4	0	
SMCODE	C	72	73	2	0	
FLDSAMPID	C	75	104	30	0	
COCID	C	106	117	12	0	
COOLER	C	119	120	2	0	
ABLLOT	C	122	129	8	0	
EBLOT	C	131	138	8	0	
TBLOT	C	140	147	8	0	
REMARKS	C	149	388	240	0	

12.2.25 TEST (Test Procedure)

Information on test preparation and procedures for an environmental sample.

Field Name	Data Type	Start	End	Length	Allowed Decimals	Changed
AFIID	C	1	5	5	0	
LOCID	C	7	21	15	0	
LOGDATE	D	23	33	11	0	
LOGTIME	T	35	38	4	0	
MATRIX	C	40	41	2	0	
SBD	F	43	50	8	2	
SED	F	52	59	8	2	
SACODE	C	61	62	2	0	
SAMPNO	N	64	65	2	0	
LABCODE	C	67	70	4	0	
ANMCODE	C	72	78	7	0	
EXMCODE	C	80	86	7	0	
LCHMETH	C	88	94	7	0	
RUN_NUMBER	N	96	97	2	0	
LABSAMPID	C	99	118	20	0	1
EXTDATE	D	120	130	11	0	2
EXTTIME	T	132	135	4	0	2
LCHDATE	D	137	147	11	0	2
LCHTIME	T	149	152	4	0	2
LCHLOT	C	154	163	10	0	2
ANADATE	D	165	175	11	0	2
ANATIME	T	177	180	4	0	2
ANALOT	C	182	191	10	0	2
LABLOTCTL	C	193	202	10	0	2
CALREFID	C	204	213	10	0	2
RTTYPE	C	215	219	5	0	2
BASIS	C	221	221	1	0	2

1. Size increased from 12 to 20 to support LABSAMPLEID field in the LAB tool
2. Position changed because of growth of LABSAMPID field

12.2.26 RESULT (Analytical Result)

Information on analytical results of an environmental sampling test procedure.

Field Name	Data Type	Start	End	Length	Allowed Decimals	Changed
AFIID	C	1	5	5	0	
LOCID	C	7	21	15	0	
LOGDATE	D	23	33	11	0	
LOGTIME	T	35	38	4	0	
MATRIX	C	40	41	2	0	
SBD	F	43	50	8	2	
SED	F	52	59	8	2	
SACODE	C	61	62	2	0	
SAMPNO	N	64	65	2	0	
LABCODE	C	67	70	4	0	
ANMCODE	C	72	78	7	0	
EXMCODE	C	80	86	7	0	
LCHMETH	C	88	94	7	0	
RUN_NUMBER	N	96	97	2	0	
PARLABEL	C	99	110	12	0	
PRCCODE	C	112	114	3	0	
PARVQ	C	116	117	2	0	
PARVAL	F	119	133	15	4	
PARUN	F	135	147	13	4	
PRECISION	N	149	149	1	0	
EXPECTED	F	151	165	15	4	
EVPREC	N	167	167	1	0	
MDL	F	169	183	15	4	
RL	F	185	199	15	4	
UNITS	C	201	210	10	0	
VQ_1C	C	212	213	2	0	
VAL_1C	F	215	229	15	4	
FCVALPREC	N	231	231	1	0	
VQ_CONFIRM	C	233	234	2	0	
VAL_CONFIRM	F	236	250	15	4	
CNFVALPREC	N	252	252	1	0	
DILUTION	F	254	266	13	4	1
DQTYPE	C	268	269	2	0	2
EPA_FLAGS	C	271	276	6	0	2
QAPPFLAGS	C	278	279	2	0	2
PERCENT_RECOVERY	N	281	283	3	0	3
RPD	N	285	287	3	0	3
UPPER_ACCURACY	N	289	291	3	0	3
LOWER_ACCURACY	N	293	295	3	0	3

1. Changed data type to floating to support 4 decimal places (N12,4)
2. Position changed because of growth of DILUTION field

3. New field added to RESULT. This field is NOT submitted to the ALPHA but it is part of the LOCAL IMPORT/EXPORT spec

12.2.27 OU (Operable Unit)

Definition of the remedial action activity.

Field Name	Data Type	Start	End	Length	Allowed Decimals	Changed
AFIID	C	1	5	5	0	
OUCODE	C	7	9	3	0	
OUNAME	C	11	45	35	0	
OUDESC	C	47	286	240	0	

12.2.28 OUC (Operable Unit Contaminant)

Type of contaminant being treated by the operable unit.

Field Name	Data Type	Start	End	Length	Allowed Decimals	Changed
AFIID	C	1	5	5	0	
OUCODE	C	7	9	3	0	
GROUPCODE	C	11	20	10	0	
MATRIX	C	22	22	1	0	

12.2.29 SOX (Site and Operable Unit Cross Reference)

Cross-reference table between operable units and sites.

Field Name	Data Type	Start	End	Length	Allowed Decimals	Changed
AFIID	C	1	5	5	0	
SITEID	N	7	9	3	0	
OUCODE	C	11	13	3	0	

12.2.30 LOX (Location and Operable Unit Cross Reference)

Cross-reference table between sampling locations and operable units.

Field Name	Data Type	Start	End	Length	Allowed Decimals	Changed
AFIID	C	1	5	5	0	
LOCID	C	7	21	15	0	
OUCODE	C	23	25	3	0	

12.2.31 RSI (Remediation System)

Series of remediation technologies that work in concert .

Field Name	Data Type	Start	End	Length	Allowed Decimals	Changed
AFIID	C	1	5	5	0	
RSID	C	7	16	10	0	
RSSTAGE	C	18	20	3	0	
RSNAME	C	22	56	35	0	
RSDESC	C	58	297	240	0	

12.2.32 RSP (Remediation System Performance)

Information about the effectiveness of the remediation system.

Field Name	Data Type	Start	End	Length	Allowed Decimals	Changed
AFIID	C	1	5	5	0	
RSID	C	7	16	10	0	
RSSTAGE	C	18	20	3	0	
BEGDATE	D	22	32	11	0	
ENDDATE	D	34	44	11	0	
PARAMETER	C	46	50	5	0	
PARVAL	F	52	62	11	2	
PARUN	F	64	74	11	2	
UNITS	C	76	85	10	0	
REMARKS	C	87	326	240	0	

12.2.33 RSX (Remediation and Site Cross Reference)

Cross-reference table between remediation trains and sites.

Field Name	Data Type	Start	End	Length	Allowed Decimals	Changed
AFIID	C	1	5	5	0	
SITEID	N	7	9	3	0	
RSID	C	11	20	10	0	
RSSTAGE	C	22	24	3	0	

12.2.34 LSX (Location and Remediation System Cross Reference)

Cross-reference table between locations and remediation systems.

Field Name	Data Type	Start	End	Length	Allowed Decimals	Changed
AFIID	C	1	5	5	0	
LOCID	C	7	21	15	0	
RSID	C	23	32	10	0	
RSSTAGE	C	34	36	3	0	

12.2.35 ROX (Remediation and Operable Unit Cross Reference)

Cross-reference table between operable units and remediation trains.

Field Name	Data Type	Start	End	Length	Allowed Decimals	Changed
AFIID	C	1	5	5	0	
OUCODE	C	7	9	3	0	
RSID	C	11	20	10	0	
RSSTAGE	C	22	24	3	0	

12.2.36 RTI (Remediation Technology)

Definition of a discrete remediation activity.

Field Name	Data Type	Start	End	Length	Allowed Decimals	Changed
AFIID	C	1	5	5	0	
RSID	C	7	16	10	0	
RSSTAGE	C	18	20	3	0	
RTID	C	22	36	15	0	
RTTYPE	C	38	42	5	0	
RTNAME	C	44	78	35	0	
RTCLASS	C	80	80	1	0	
GROUPCODE	C	82	91	10	0	
MEDIA	C	93	94	2	0	
ESTDATE	D	96	106	11	0	
STARTDATE	D	108	118	11	0	
RTDESC	C	120	359	240	0	

12.2.37 RTP (Remediation Technology Performance)

Information about the effectiveness of the remediation technology.

Field Name	Data Type	Start	End	Length	Allowed Decimals	Changed
AFIID	C	1	5	5	0	
RSID	C	7	16	10	0	
RSSTAGE	C	18	20	3	0	
RTID	C	22	36	15	0	
RTTYPE	C	38	42	5	0	
BEGDATE	D	44	54	11	0	
ENDDATE	D	56	66	11	0	
PARAMETER	C	68	72	5	0	
PARVAL	F	74	84	11	2	
PARUN	F	86	96	11	2	
UNITS	C	98	107	10	0	
REMARKS	C	109	348	240	0	

12.2.38 LTX (Location Remediation Technology)

Cross-reference table between locations and remediation technologies.

Field Name	Data Type	Start	End	Length	Allowed Decimals	Changed
AFIID	C	1	5	5	0	
LOCID	C	7	21	15	0	
RSID	C	23	32	10	0	
RSSTAGE	C	34	36	3	0	
RTID	C	38	52	15	0	
RTTYPE	C	54	58	5	0	

12.3 LOCAL METHODS IMPORT TABLE

The Local Method import file is a pipe (|) delimited text file that contains the local methods information in the following format. There is also a header record that specifies the application version.

Field Name	Type	Start	End	Length	Decimals	Changes
METHOD_NAME	C24	1	24	24	0	
ANMCODE	C7	25	31	7	0	
MATRIX_TYPE	C1	32	32	1	0	
DEFAULT_UNITS	C10	33	42	10	0	
PRECISION	N1	43	43	1	0	
PARLABEL	C12	44	55	12	0	
PRCCODE	C3	56	58	3	0	
MDL	N14,4	59	73	15	4	
RL	N14,4	74	88	15	4	
UNITS	C10	89	98	10	0	
SURROGATE	C5	99	103	5	0	
RPD	N3	104	106	3	0	
UPPER_ACCURACY	N3	107	109	3	0	
LOWER_ACCURACY	N3	110	112	3	0	

13. VALID VALUE LISTS

Short Name	Long Name
ANPARXREF	Analytical Method/Analyte Cross Reference
EXT_AMC	Preparation Method/AMC Cross Reference
GSI	Site
PRC_AMC	PRCCODE/AMC Cross Reference
WLAFI	Air Force Installation
WLAMC	Analytical Method Classification
WVLANG	Analyte Group
WVLANM	Analytical Method
WVLANT	Analysis Type
WVLAST	ASTM Code
WVLBAS	Basis
WVLCHD	Changing Head Direction
WVLCLA	Well Segment Classification
WVLCMC	Construction Method
WVLCMT	Calculation Method
WVLCPC	Calculated Parameter
WVLCRD	Coordinate Method
WVLCRT	Coordinate Type
WVLDQT	Data Qualifier Type
WVLDRL	Drilling Company
WVLEDQ	EMI Data Qualifier
WVLELM	Elevation Method
WVLESC	Establishing Company
WVLEXC	Excavating Company
WVLEXM	Preparation Method
WVLFTC	Fluid Type
WVLGFC	Geohydrologic Flow Classification
WVLGZC	Hydrogeologic Completion Zone
WVLLAB	Laboratory
WVLLCH	Leachate Method
WVLLCG	Logging Company
WVLLPR	Location Proximity
WVLLTC	Location Type
WVLLTH	Lithology Code
WVLMAP	Mapping Company
WVLMAT	Well Construction Material
WVLMCC	Map Coverage Code
WVLMED	Media
WVLMMT	Measuring Method
WVLMTC	Map Type
WVLMTX	Sampling Matrix
WVLMTY	Matrix Type
WVLPAR	Analyte
WVLPRC	Analyte Classification
WVLPRF	Performance Parameter

WLPVQ	Parameter Value Qualifier
WLQAP	QAPP Flags
WLRSS	Remediation System Stage
WLRTC	Remediation Technology Class
WLRTT	Remediation Technology Type
WLSA	Sample Type
WLSAQ	Sole Source Aquifer
WLSTM	Sampling Method
WLSPD	Supporting Data
WLSPR	Site Proximity
WLSTP	STP Projection
WLSTZ	STP Zone
WLTMT	Test Method
WLTRT	Tracer Type
WLUTM	Units of Measurement
WLUTR	Remediation Units
WLUTZ	UTM Zone
WLVCM	Well Completion Method
VLWDP	Well Development Procedures
VLWEL	Well Owner
VLWMT	Well Maintenance Type
VLWTC	Well Type

14. TABLE FIELD DESCRIPTIONS

ABL0T

Prime Project, Type C
Ambient Blank Field Lot Identifier.

AFIID

VVL - AFI, Prime Project, Type C
Unique code used to represent an Air Force installation, plant, or base.

ANADATE

Prime and Lab Project, Type D
The starting date of the sample test. This attribute is used if the samples are related to an aquifer test or tracer test. A series of samples taken at different times can be related using the start date and times.

ANAL0T

Prime and Lab Project, Type C
The batch designator of an autonomous group of environmental samples and associated QC samples analyzed together.

ANATIME

Prime and Lab Project, Type T
The starting time of the sample test. This attribute is used if the samples are related to an aquifer test or tracer test.

ANATYPE

VVL - ANT, Prime Project, Type C
The type of test being performed on the sample (e.g., air sampling, water velocity, soil sample, well bore fluid sample, etc.).

ANM00DE

VVL - ANM, Prime and Lab Project, Type C
Coded value representing the method of analysis of a given parameter.

AQBASEDEPTH

Prime Project, Type F
The estimated depth of the aquifer used to make the calculation.

AQTHICK

Prime Project, Type F
The assumed saturated thickness of the aquifer used to perform the calculation.

ASTM00DE

VVL - AST, Prime Project, Type C
ASTM Soil Classification Code. A 2 or 4 character code used in ASTM classification of unconsolidated deposits. Deposits possessing characteristics of two groups are designated by combinations of groups.

BASIS

VVL - BAS, Prime and Lab Project, Type C

Basis. For tissue or solid samples enter whether results are reported on a wet (W) or dry (D) basis.

BEDNAME

Prime Project, Type C

Name of the geological bed of which the unit is a part.

BEGDATE

Prime Project, Type D

The starting date the pumping was performed.

BEGDEPTH

Prime Project, Type F

Upper depth of a lithologic stratum, measured below the ground surface in feet (reported as a positive value).

BEGTIME

Prime Project, Type T

The starting time the pumping was performed.

BHANGLE

Prime Project, Type F

Angle at which borehole was drilled.

BHAZIM

Prime Project, Type F

Azimuth (degrees on a compass) of which the borehole was drilled.

BHDIAM

Prime Project, Type F

The diameter of a borehole in inches.

BIDEPH

Prime Project, Type F

The lower depth of the interval that is being tested.

BMDESIG

Prime Project, Type C

Code, label, name, etc. of a benchmark.

BMEAST

Prime Project, Type F

The x-value of a map benchmark.

BMELEV

Prime Project, Type F

The ground surface elevation of a map benchmark.

BMNORTH

Prime Project, Type F
The y-value of a map benchmark.

CALCMETH

VVL – CMT, Prime Project, Type C
The type of method used to calculate the results (e.g., Theis, Theim, Chow, Hantush-Jacob, etc.).

CALCPARCODE

VVL - CPC, Prime Project, Type C
The type of result of the calculation (e.g., transmissivity, hydraulic conductivity, storage coefficient, etc.).

CALREFID

Prime and Lab Project, Type C
A coded value that establishes a reference link between environmental and QC samples and their corresponding calibration records.

CLASS

VVL - CLA, Prime Project, Type C
Classification of the casing interval. May be seal, screen, well foot, blank, or filter pack.

CMCCODE

VVL – CMC, Prime Project, Type C
Coded value identifying the method by which a borehole or test pit was constructed (Drilling or Excavation Method).

CNFVALPREC

Prime and Lab Project, Type N
Number indicating the precision (number of digits after the decimal point) of the results.

COCID

Prime and Lab Project, Type C
Unique identification reference to the chain of custody describing the transport of the sample to the laboratory.

CONTRACT

Prime Project, Type C
Contract number, consisting of a fiscal year and contract sequence number (i.e., F33615-84-D-4402).

COOLER

Prime Project, Type C
The unique number assigned to the cooler transporting the sample.

CRDMETH

VVL – CRD, Prime Project, Type C
Indicates the method used to determine the location (e.g., survey, GPS, estimated, digitized).

CRDTYPE

VVL – CRT, Prime Project, Type C

The type of coordinate system used (i.e., UTM,STP,GEO).

CRDUN

Prime Project, Type F

The expression of the precision of the location coordinates.

CRDUNITS

VVL – UTM, Prime Project, Type C

Units of measure of the surveyed northing and easting values.

DATUM

Prime Project, Type C

Identifier representing the geodetic datum used in the survey (e.g., State Plane Coordinate System NAD 1983, Florida Western Zone).

DEPTH

Prime Project, Type F

The total depth of a borehole (including boreholes drilled to install wells) measured in feet relative to ground surface.

DEPWAT

Prime Project, Type F

The depth from the measuring point to the top of the fluid in the well bore. These measurements will include the water level at the beginning of the test (time=0). These measurements are used to calculate drawdown.

DILUTION

Prime and Lab Project, Type F

Numeric expression of the amount of dilution required to bring the analyte concentration in the sample into analysis range.

DO

Prime Project, Type C

Sequential identifier assigned to the Air Force form “Orders for Supplies and Services.”

DQTYPE

VVL - DQT, Prime and Lab Project, Type C

A code identifying the type of data qualifier.

DRLCODE

VVL – DRL, Prime Project, Type C

Coded value identifying the organization that drilled a borehole at a sampling or measuring location. This organization is typically the drilling subcontractor.

DRY

Prime Project, Type C

Y/N flag indicating whether the well is dry.

EBLOT

Prime Project, Type C
Equipment blank field lot identifier.

ECOORD

Prime Project, Type F
The x-value (East-West) of the distance in feet of a sampling or measuring location from the reference location of known state plane coordinates.

ELEV

Prime Project, Type F
Elevation of ground surface (for groundwater, soil, or sediment sampling) or water surface (for surface water sampling) at a sampling or measuring location.

ELEV METH

VVL – ELM, Prime Project, Type C
Method used in to determine the location's elevation.

ELEVUN

Prime Project, Type F
The expression of the precision of the location coordinates.

ELEVUNITS

VVL – UTM, Prime Project, Type C
The unit that the elevation was measured in feet (f).

ELFLAG

Prime Project, Type B
Flag that indicates whether or not more current measurements for the Ground Surface Elevation are available in the Well Maintenance table.

ENDDATE

Prime Project, Type D
The ending date.

ENDDEPTH

Prime Project, Type F
The lower depth of the interval that is being tested.

ENDTIME

Prime Project, Type T
The ending time.

EPA_FLAGS

Prime and Lab Project, Type C
Codes that are assigned during chemistry data validation.

ESCCODE

VVL – ESC, Prime Project, Type C
Coded value identifying the organization that establishes a sampling or measuring location, typically the prime contractor.

ESTDATE

Prime Project, Type D
Date the action was complete.

EVPREC

Prime Project, Type N
Number indicating the precision (number of digits after the decimal point) of the results.

EXCCODE

VVL – EXC, Prime Project, Type C
Coded value identifying the organization that excavated a test pit at a sampling or measuring location.

EXMCODE

VVL – EXM, Prime and Lab Project, Type C
Coded value representing the method used to extract or prepare a sample.

EXPECTED

Prime and Lab Project, Type F
The target result for a quality control sample or surrogate spike.

EXTDATE

Prime and Lab Project, Type D
Preparation date is a more general identifier to indicate extractions or other preparation methods. For compatibility with DESCIM.

EXTIME

Prime and Lab Project, Type T
Preparation time is a more general identifier to indicate extractions or other preparation methods. For compatibility with DESCIM.

FCVALPREC

Prime and Lab Project, Type N
Number indicating the precision (number of digits after the decimal point) of the results.

FLDSAMPID

Prime and Lab Project, Type C
Unique number assigned to the sample in the field.

FORMATION

Prime Project, Type C
Name of the geological formation of which the unit is a part.

FTCODE

VVL - FTC, Prime Project, Type C
The type of fluid encountered in the well. This would normally be groundwater. If another type of fluid is encountered in the well bore during the test, then it should be noted here and explained in the comments.

GEOLOG

Prime Project, Type C

Contains the reference to any/all geophysical logs created during drilling operations.

GFCCODE

VVL – GFC, Prime Project, Type C

The GFCCODE is a single character that describes the hydrologic relationship between a location and a site.

GROUPCODE

VVL – ANG, Prime Project, Type C

A unique code that identifies a group of environmental contaminants, (e.g., CHLOR, SOLVENT, PEST).

GRPNAME

Prime Project, Type C

Name of the geological group of which the unit is a part.

GZCCODE

VVL – GZC, Prime Project, Type C

Geologic Completion Zone. General Zone hydrologic description of well completion zone.

HANDBOOK

Prime Project, Type C

Indicates which handbook version (2.3, 3, 4, or 5) the data is formatted in.

HEADDR

VVL – CHD, Prime Project, Type C

The direction of the observed or expected well drawdown trend during a slug or aquifer test.
This may be expressed as rising head, falling head, drawdown, residual, or recovery.

HS_UNIT

Prime Project, Type C

Working name given to the unit.

HSDESC

Prime Project, Type C

Textual description of the hydrostratigraphic unit.

HSTYPE

VVL - LTH, Prime Project, Type C

USGS soil or rock classification for the type of soil/rock that comprises this hydrostratigraphic unit.

IBDEPTH

Prime Project, Type F

Depth in feet to the top of the described interval.

IEDEPTH

Prime Project, Type F
Depth in feet to the bottom of the described interval.

INSDATE

Prime Project, Type D
Date that a well casing is installed.

LABCODE

VVL – LAB PROJECT, Prime and Lab Project, Type C
Analytical Laboratory Code. Coded value identifying the analytical laboratory that performed the analysis of a sample.

LABLOTCTL

Prime and Lab Project, Type C
Preparation Lot is a more general identifier to indicate extractions or other preparation methods. For compatibility with DESCIM.

LABSAMPID

Prime and Lab Project, Type C
Laboratory Sample Identification.

LCHDATE

Prime and Lab Project, Type D
Date the sample was leachated.

LCHLOT

Prime and Lab Project, Type C
The batch designator of an autonomous group of environmental samples and associated QC samples leached together.

LCHMETH

VVL – LCH, Prime and Lab Project, Type C
Coded value identifying the leachate method.

LCHTIME

Prime and Lab Project, Type T
Time the sample was leachated.

LITHCODE

VVL – LTH, Prime Project, Type C
4-Character code indicating lithologic description of layer.

LLEAST

Prime Project, Type N
The lower left x-value of a general area of interest.

LLNORTH

Prime Project, Type N
The lower left y-value of a general area of interest.

LOCDESC

Prime Project, Type C

Any additional information to describe a sampling or measuring location in text format.

LOCID

Prime Project, Type C

Name of a location on an installation.

LOGCODE

VVL – LOG, Prime and Lab Project, Type C

Coded value identifying the company performing field tests.

LOGDATE

Prime and Lab Project, Type D

The date the sample was taken.

LOGTIME

Prime and Lab Project, Type T

The time the sample was taken.

LOWER_ACCURACY

Prime and Lab Project, Type N

Lower accuracy established for this analyte (Not Submitted to AFCEE).

LPRCODE

VVL – LPR, Prime Project, Type C

Location Proximity Code. Coded value indicating whether sampling or measuring location is within or outside the Air Force installation boundaries.

LTCCODE

VVL – LTC, Prime Project, Type C

Coded value describing location where measurements or samples are taken.

MAPCODE

VVL – MAP, Prime Project, Type C

Coded value identifying the company responsible for producing a map of a designated area.

MAPDESC

Prime Project, Type C

Textual description of the mapped area.

MAPRID

Prime Project, Type C

Unique identifier assigned to each map for an installation.

MAPSCALE

Prime Project, Type N

The drawing scale of a map expressed as inches of drawing per feet of terrain.

MATERIAL

VVL – MAT, Prime Project, Type C

The material being used for well casing or construction includes grout, filter pack, screen, well seal, etc.

MATRIX

VVL - MTX, Prime and Lab Project, Type C

Coded value identifying the sample medium actually being analyzed, (e.g., soil, water, etc.).

MBRNAME

Prime Project, Type C

Name of the geological member of which the unit is a part.

MCCCODE

VVL – MCC, Prime Project, Type C

Coded value delineating the extent to which a reference map covers specified features associated with a site, zone, or entire installation.

MDL

Prime and Lab Project, Type F

Minimum detectable quantity of a parameter based on laboratory conditions, analytical method, or field conditions.

MEASDATE

Prime Project, Type D

Date that the observation well was measured.

MEASMETH

VVL – MMT, Prime Project, Type C

Coded value representing the method used to make the measurement.

MEASTIME

Prime Project, Type T

Time that the observation well was measured.

MEDIA

VVL - MED, Prime Project, Type C

Coded value identifying the sample medium actually being treated, (i.e., soil, water, etc.).

MPELEV

Prime Project, Type F

Elevation of the measurement reference point used for groundwater depth level measurements, expressed in feet above Mean Sea Level.

MPFLAG

Prime Project, Type B

Flag that indicates whether or not more current Flag measurements for the Point Elevation are available in the Well Maintenance table.

MTCCODE

VVL – MTC, Prime Project, Type C
Coded value identifying the type of map.

MTYPE

VVL - WMT, Prime Project, Type C
The type of maintenance performed on the well.

NCOORD

Prime Project, Type F
The y-value (North-South) of the distance in feet of a sampling or measuring location from the reference location of known state plane coordinates.

OBS_LOCATION

Prime Project, Type C
Name of a location on an installation.

OUCODE

Prime Project, Type C
A coded value representing the Operable Unit Name. Used as part of the primary key.

OUDESC

Prime Project, Type C
Textual description of the Operable Unit.

OUNAME

Prime Project, Type C
Name of the operable unit.

PARAMETER

VVL – PRF, Prime Project, Type C
Performance parameter (e.g. Destroyed mass, extracted mass, concentration, collection frequency).

PARENTFLDID

Lab Project, Type C
FLDSAMPID of the parent record.

PARENTLABID

Lab Project, Type C
LabSAMPID of the parent record.

PARLABEL

VVL – PAR, Prime and Lab Project, Type C
Parameter Label Code - An abbreviated, common acronym representing a parameter/analyte.

PARUN

Prime and Lab Project, Type F
A value that measures the uncertainty of the analytical test (expressed as + or - some value.).

PARVAL

Prime and Lab Project, Type F

Value of calculated parameter reported in units consistent with UNITMEAS.

PARVQ

VVL - PVQ, Prime and Lab Project, Type C

Coded value qualifying the analytical results field (PARVAL).

PCTOPEN

Prime Project, Type F

Percent of screened interval that is open for water flow.

PERCENT_RECOVERY

Prime and Lab Project, Type N

Percent of the amount spiked that was recovered (Not Submitted to AFCEE).

PRCCODE

VVL – PRC, Prime and Lab Project, Type C

Coded value identifying a class or group that a parameter is associated with (e.g. ORG, MET, STD, etc.).

PRECISION

Prime and Lab Project, Type N

Number indicating the precision (number of digits after the decimal point) of the results.

PROJECT_NAME

Prime Project, Type C

User defined name for the project. This field is normally used to differentiate between quarterly monitoring projects where the AFIID, CONTRACT_ID and DO_ID are the same.

PUMPDEPTH

Prime Project, Type F

The depth of the pump.

PUMPINGRATE

Prime Project, Type F

The rate the well was pumped.

PUMPRATE

Prime Project, Type F

The measured rate of the pump.

QAPPFLAGS

VVL – QAP, Prime and Lab Project, Type C

A coded value assigned to analytical results during laboratory or validation review.

QUALIFIER

VVL – EDQ, Prime Project. Type C

Data Qualifier.

RECNO

Prime and Lab Project, Type N
Auto-generated number by the system.

REMARKS

Prime and Lab Project, Type C
Textual description of parameter and result.

RL

Prime and Lab Project, Type F
Laboratory Detection Limit - Minimum detectable quantity of a parameter based on laboratory conditions, analytical method, or field conditions.

RPD

Prime and Lab Project, Type N
Relative percent difference (Not Submitted to AFCEE).

RSDESC

Prime Project, Type C
Textual description of the Remediation Train.

RSID

Prime Project, Type C
User defined name for the Remediation System. Used as part of the primary key.

RSNAME

Prime Project, Type C
Name of the remediation system.

RSSTAGE

VVL – RSS, Prime Project, Type C
Type of remediation system (e.g., treatability study, pilot study, field demo, full-scale remediation).

RTCLASS

VVL – RTC, Prime Project, Type C
A coded value representing the Remediation Technology Class (in-situ, ex-situ or mixed).

RTDESC

Prime Project, Type C
Textual description of the remedial unit.

RTID

Prime Project, Type C
User defined name for the Remediation Technology. Used as part of the primary key.

RTNAME

Prime Project, Type C
Name of the remedial Technology.

RTTYPE

VVL - RTT, Prime Project, Type C

Type of remediation technology (e.g., slurry wall, in situ Type vitrification, bio-reactor).

RUN_NUMBER

Prime and Lab Project, Type N

This information is stored in the Test Procedure class and is replaced by the use of Test Sequence.

SACODE

VVL - SAC, Prime and Lab Project, Type C

A coded value identifying whether the sample is QC or normal and the type is QC.

SAMPNO

Prime and Lab Project, Type N

This is the numeric portion of the Sample Type.

SAQCODE

VVL - SAQ, Prime Project, Type C

Coded value identifying the sole source aquifer in which the well was completed.

SBD

Prime Project, Type F

The upper depth in feet from the ground surface or the water surface at which a sample is collected.

SCRNO

Prime Project, Type N

Identifier used to group segments belonging to the same screened interval.

SDIAM

Prime Project, Type F

The inside diameter of the well casing being described. For screen intervals, it is the inside diameter of the screen.

SED

Prime Project, Type F

Sample Ending Depth - Lower depth in feet at which a soil sample is collected for analysis, relative to the ground surface.

SITEID

VVL - GSI, Prime Project, Type N

Number that uniquely identifies a site.

SLUGVOL

Prime Project, Type F

The volume of a slug used to displace groundwater during a slug test.

SMCODE

VVL - SM, Prime Project, Type C

Coded value identifying the sampling method used to collect a sample.

SOUA

Prime Project, Type F
Vertical size of slot opening in inches.

SOUNDING

Prime Project, Type F
Total depth to the bottom of well in feet at time of test, measured from the reference point.

SPCODE

VVL - SPR, Prime Project, Type C
A coded value indicating whether the location is in the site, outside the site or background.

SPIKEADDED

Lab Project, Type F
Amount that the sample was spiked. In the UNITS field specify the actual units of measure used.

SPIKEADDEDPREC

Lab Project, Type N
Number indicating the precision (number of digits after the decimal point) of the spike results.

ST_UNIT

VVL – STU, Prime Project, Type C
Descriptive name given to the unit.

STARTDATE

Prime Project, Type D
The date the activity started.

STARTTIME

Prime Project, Type T
The time that the activity started.

STATDEP

Prime Project, Type F
Depth to water in feet measured from the measuring point.

STPPROJ

VVL – STP, Prime Project, Type C
Geographic projection used by the state planar system.

STPZONE

VVL – STZ, Prime Project, Type C
The coordinate zone needed in order for the Geodetic Datum attribute to make sense. For Compatibility with DESCIM.

STRATORDER

Prime Project, Type N
Number assigned to the unit by the interpreting geologist; unit 1 is the oldest; the number decreases with age.

SUBM_GROUP

Prime Project, Type N

Indicates which submission group (1-4) the data belongs to.

SUBMDATE

Prime and Lab Project, Type D

The date the record was submitted.

SUBMDATE

Prime Project, Type D

The date the record was submitted.

SUDESC

Prime Project, Type C

Textual description of the stratigraphic unit.

SUPPDATA

VVL – SPD, Prime Project, Type C

Indicates that primary data (e.g., pump test or slug test data) supporting the calculation are available.

TBLOT

Prime Project, Type C

Test Blank Field Lot Identifier.

TESTMETH

VVL – TMT, Prime Project, Type C

The type of test that is being performed on the well for which the calculation is being made.

TIDDEPTH

Prime Project, Type F

The upper depth of the interval being tested.

TOTDEPTH

Prime Project, Type F

Total depth in feet (positive value) below land surface of well casing including screen, blank casing and well foot.

TRC_CONC

Prime Project, Type F

The value of the concentration of the tracer that was injected into the well.

TRCTYPE

VVL – TRT, Prime Project, Type C

The type of tracer that was used for the tracer test.

TRCUNITS

VVL – UTM, Prime Project, Type C

The units of measurement for the tracer concentration value.

TRCVOL

Prime Project, Type F

The volume of the tracer that was used for the tracer test.

TRCVOLUNITS

VVL - UTM, Prime Project, Type C

The units of measurement for the tracer volume.

UNITS

VVL - UTR, Prime and Lab Project, Type C

Units of measure associated with a record.

UPDATE

Prime and Lab Project, Type D

The date and time the record was inserted or edited.

UPPER_ACCURACY

Prime and Lab Project, Type N

Upper accuracy established for this analyte (Not Submitted to AFCEE).

UPUSER

Prime and Lab Project, Type C

The last user to insert or edit the record.

UREAST

Prime Project, Type N

The upper right x-value of a general area of interest.

URNORTH

Prime Project, Type N

The upper right y-value of a general area of interest.

UTMZONE

VVL – UTZ, Prime Project, Type C

The coordinate zone needed in order for the Geodetic Datum attribute to make sense. For
Compatibility with DESCIM.

VAL_1C

Prime and Lab Project, Type F

Field that represents the primary or initial value for a analyte generated from a Gas
Chromatography or Gas Chromatography / Mass Spectroscopy results.

VAL_CONFIRM

Prime and Lab Project, Type F

The confirming value of a chromatographic analytical result that requires second column
confirmation.

VALSTATUS

Prime and Lab Project, Type C

The validation status of the record.

VERSION

Prime Project, Type C

Indicates which version of the ERPTools/PC software produced the submission.

VISDESC

Prime Project, Type C

Visual Description - Textural and mineralogical description of the material comprising the layer, to augment or qualify the lithologic codes.

VQ_1C

VVL - PVQ, Prime and Lab Project, Type C

A coded value qualifying the VAL_1C field.

VQ_CONFIRM

VVL - PVQ, Prime and Lab Project, Type C

Code value qualifying the confirming analytical result.

WCMCODE

VVL - WCM, Prime Project, Type C

Coded value identifying the method used to complete the well or the nature of the openings that allow water to enter the well.

WDPROC

VVL - WDP, Prime Project, Type C

Indicates the type of well development procedures used.

WELCODE

VVL - WEL, Prime Project, Type C

Coded value identifying the owner of a well that is monitored or tested.

WELLDIST

Prime Project, Type F

The distance from the pumping well to the observation well.

WTCCODE

VVL - WTC, Prime Project, Type C

Coded value identifying the type of well in which the measurements are being taken (e.g., slugged, observation).

WTDEPTH

Prime Project, Type F

The estimated depth of the water table used for the calculation; this value would be the top of a confined aquifer.

ZNAME

Prime Project, Type C

Name of the zone.

ZONEDESC

Prime Project, Type C

Textual description of the zone and its purpose.

ZONEID

Prime Project, Type C

Unique identifier for a group of individual locations maintained for collective study and evaluation.

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