

PEMS Users Guide

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Table of contents

Introduction.....	Page 1
PEMS user support	Page 2
System Requirement	Page 3
PEMS Login Screen.....	Page 4
Login by Project or SOW	Page 5
Choose a Project	Page 6
Choose a Statement of Work	Page 7
Welcome to PEMS on the WEB	Page 8
Project Administration	Page 9
Project Definition.....	Page 10
Project Equipment.....	Page 12
Project Lab	Page 14
Project Parameter Analysis Group.....	Page 15
Project Statement of Work.....	Page 18
Project Task	Page 23
Project Task Location	Page 30
Project User Role	Page 33
Data Management Main Screen (Part 1).....	Page 34
Planning	Page 36
Field Collection Task Reference.....	Page 36
Field Collection Task Map.....	Page 42
Sample Log	Page 48
Flow-Paced Monthly Composite	Page 65
Field Data.....	Page 79
Enter Collection Date and Time	Page 80
Laboratory Chain of Custody.....	Page 84
Bar Code Transactions.....	Page 98
File Formats	Page 99
Print Barcode Menu Sheets.....	Page 101
Transfer Barcode Reader Data.....	Page 105
Edit Sample Barcode Reader Data.....	Page 108
Edit Field Barcode Reader Data	Page 114
Field Measurements	Page 120
RTL Field Measurements	Page 137
Change Sample Depth.....	Page 141
Associate Samples	Page 145
Associate Samples to Field Measurements.....	Page 150
Associate Biota Samples.....	Page 156
Lab Data.....	Page 170
Transfer and Validate EDD Data.....	Page 171
Get a Hardcopy of EDD Data From the Database.....	Page 175
EDD Data File History.....	Page 177
SOW Detail Information.....	Page 179
Missing Analytes Report.....	Page 181
Project Parameter Analysis Group.....	Page 184

Data Management Main Screen (Part 2).....	Page 185
Analytical Data	Page 185
Validation Qualifier Assignment	Page 186
Edit Sample Results	Page 198
Apply Data Assessment Codes	Page 199
Result/DRG Verification	Page 203
Generate RTL.....	Page 205
Assign OREIS RTL Event/Sub Event Names	Page 206
Assign OREIS RTL Remediated Flag/Comments For Samples ..	Page 209
Assign OREIS RTL Remediated Flag/Comments For Locations	Page 214
PEMS to OREIS RTL Review	Page 219
Send an RTL to OREIS	Page 221
OREIS File Submission Form	Page 226
Utility Functions	Page 228
Delete/Rename Sample	Page 229
Change Sample Status.....	Page 233
Change Sample Location	Page 237
Change Monitoring Location.....	Page 240
Sample Analysis Plan (SAP)	Page 241
Transfer and Validate SAP Data.....	Page 243
Parameter Group Descriptions.....	Page 243
Parameter Group Definitions	Page 243
Sample Locations.....	Page 244
Sample Frequency Valid Values.....	Page 245
SAP Data Load Screen.....	Page 246
Get A Hardcopy of SAP Data From the Database	Page 250
SAP Data File History	Page 252
SAP Parameter Group Descriptions Report	Page 254
SAP Parameter Group Definitions Report	Page 256
SAP Sample Location Report	Page 258
SAP Comparison Report	Page 260
Global Administration	Page 262
Table of Valid Values lists	Page 263
Reports Main Screen.....	Page 264
Table of Reports	Page 265

Introduction

PEMS is the data management system for use by all UCOR Environmental Management and Enrichment Facility (EM&EF) Program projects to support environmental monitoring and clean-up efforts. PEMS provides organization, integrity, security, traceability, and consistency of the environmental measurements data generated during an environmental investigation or restoration project. The system supports sample analysis planning, laboratory statements of work, field planning, sample collection and shipment, field measurement collection, bar coding, analytical laboratory results (electronic data deliverables and screening), sample tracking, data assessment, and the transfer of data to OREIS. PEMS also interfaces with Tracker, linking the systems together. PEMS can be accessed by project team members throughout the project life cycle.

PEMS automates the generation of field forms, reduces data entry errors through the use of bar code readers, and enables the loading of electronic data deliverables. The links with Tracker track project costs, accruals and residual sample waste disposal for a complete "cradle to grave" system. The data in PEMS is always available, giving end-users the ability to monitor progress from planning through reporting. PEMS is available at no cost to the project.

Who should use PEMS and what are the benefits?

PEMS is the data management system for use by all UCOR Environmental Management and Enrichment Facility Program projects to support any environmental monitoring and clean-up sampling effort. The system can be accessed by any project team member throughout the full project life cycle to support the following activities:

- Create the Project and Plan for Sampling
- Collect Samples and Field Measurements
- Ship Samples to Laboratories
- Receive and Process Analytical Results
- Evaluate and Qualify Data
- Analyze and Access Data
- Transfer Project Data to OREIS

PEMS Saves the EM&EF Projects Dollars

- 1) No data management system support costs are billed to the project
- 2) Data is continuously available to the project team for no additional cost
- 3) Costly data "hunts" are eliminated for data contained in the system
- 4) Data is entered one time into the system and reused
- 5) "Paperwork" is maintained and generated by the system
- 6) The OREIS Ready-To-Load (RTL) format is generated without cost to the project

PEMS User Support

To Get Started Utilizing PEMS, Please Contact:
PEMS Support at (865) 574-3257, or email pems@ettp.doe.gov.

To receive a PEMS account, send an e-mail request with the following information:

1. First and Last Name
2. Badge Number
3. Company and phone number
4. E-mail address
5. Name and E-mail address of your project contact along with the project name(s).

Once your user id and password are established, your project data coordinator will be notified to grant the appropriate level of project-specific access.

Note: PEMS currently has the following project-specific roles:

- A. Project Data Coordinator – the person responsible for creating and maintaining project data.
- B. Sample Planner – the person(s) responsible for sample planning data entry.
- C. Laboratory – the laboratory responsible for loading analytical data into PEMS.
- D. Validator/Verifier – the person responsible for verifying and validating analytical results.
- E. Reports Viewer – any member of the project team who needs read-only access to the project data.

System Requirements

Internet browser:

Netscape® Communicator 4.77

May be downloaded from the PEMS Home Page at:

<https://www-pems.ettp.energy.gov/pems/home/home.html>

(Optional), If you plan to print barcode labels then you will need to install barcode fonts onto each machine that will be printing barcode labels. These fonts are available on the PEMS Home page under the 'Barcode Downloads' option at:

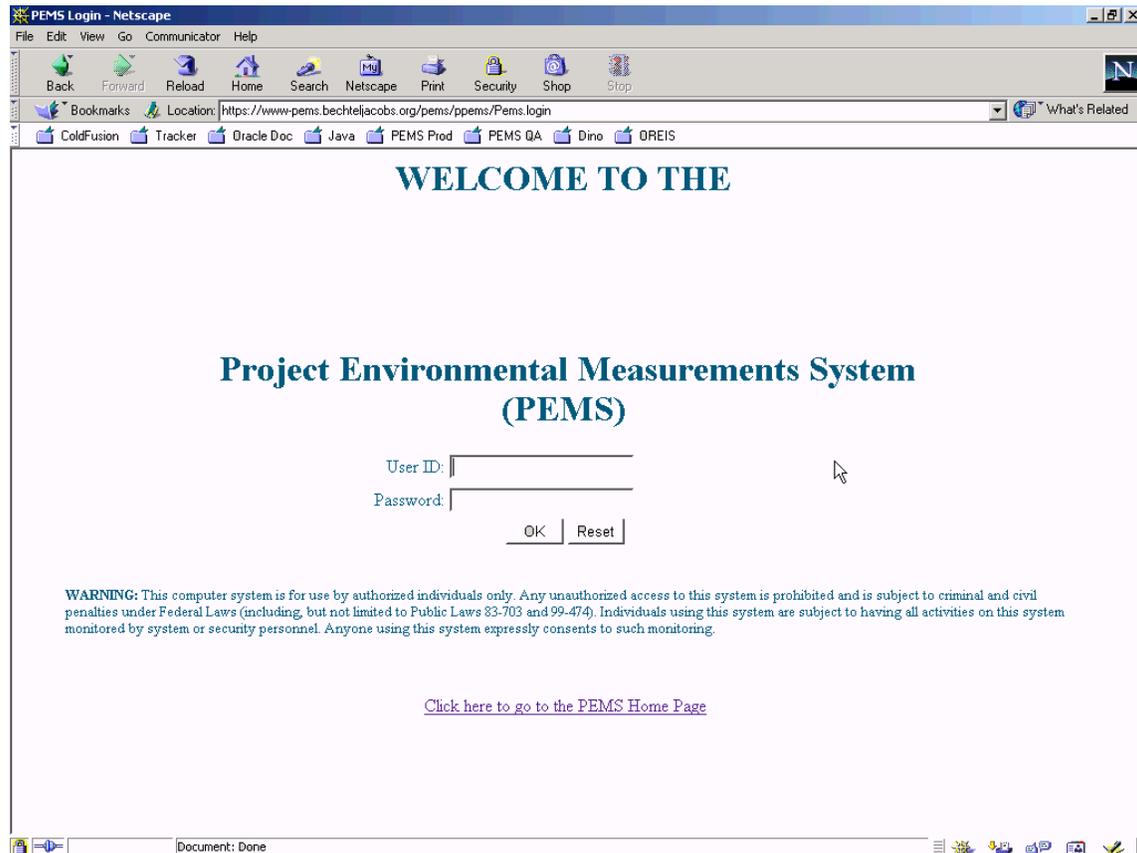
<https://www-pems.ettp.energy.gov/pems/home/home.html>

The fonts to be installed are:

C39HrP24DhTt (True Type)

C39P24D1Tt (True Type)

PEMS Login Screen

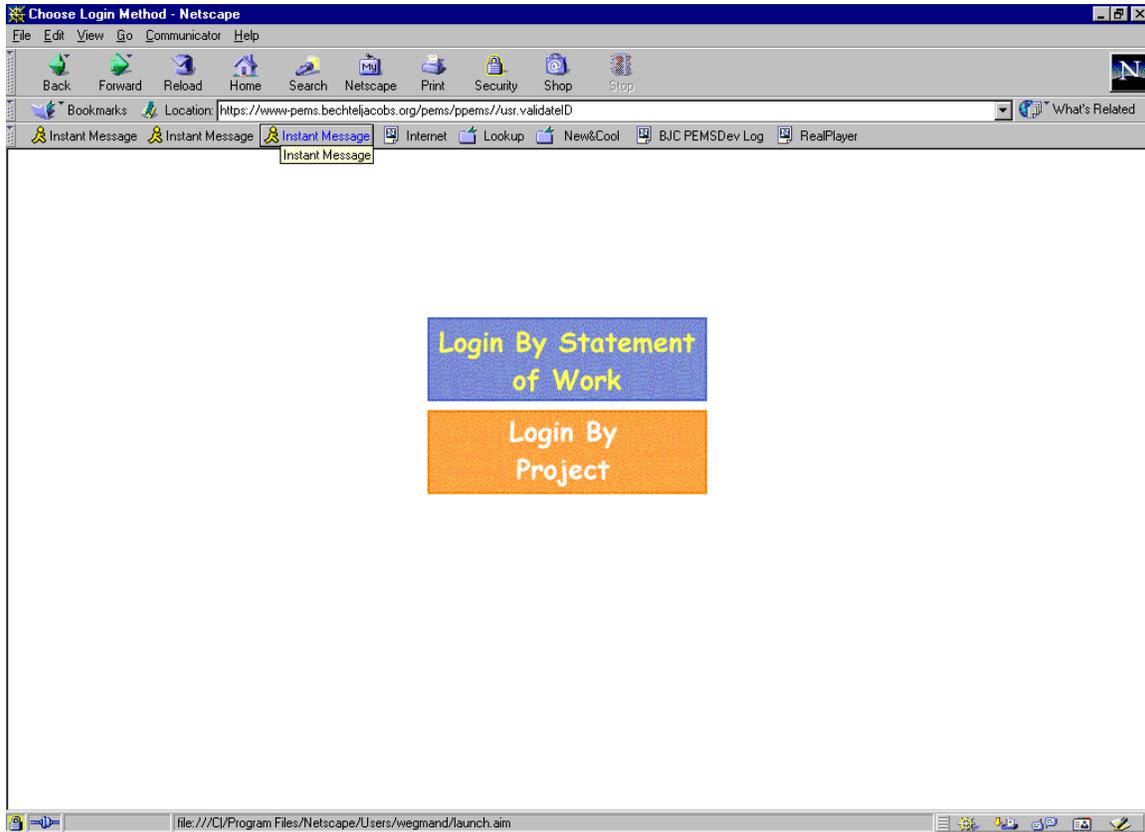


This is the initial login screen for the PEMS system. To login to PEMS, enter a valid PEMS user identifier and password, and either click the 'OK' button or navigate to the OK button using the Tab key. The password field is case-sensitive, but the User ID field is not.

The 'Reset' button will clear the data entry of the fields on this page.

A new password is assigned to each user every 6 months in accordance with UCOR security plan.

Login by Project or SOW



The user can access PEMS system either by the project or by Statement of Work (SOW). Each option will display a list of projects or SOWs assigned to the login user with a specific role.

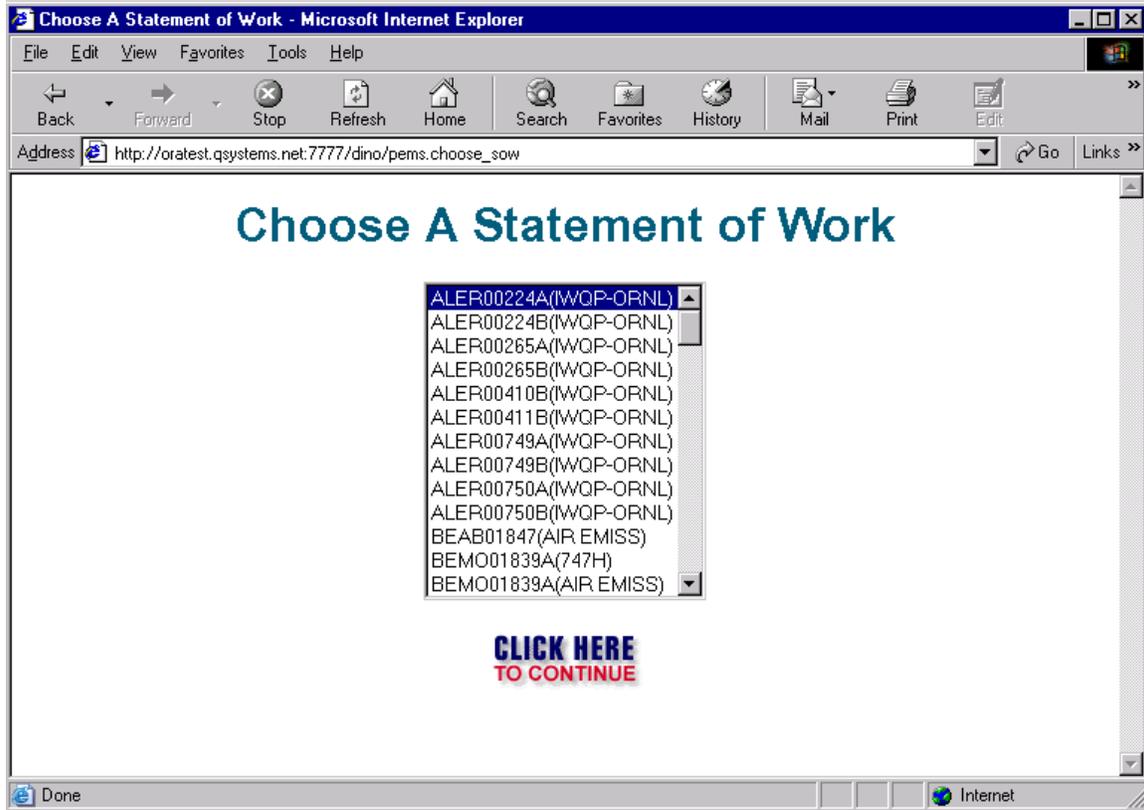
Choose a Project

ID	Sponsor	Name
AJONES-1	Bechtel Jacobs Co. LLC	Ajones - check of various
BJC09914	WASTE MANAGEMENT	PORTSMOUTH - SW-3 FLOOR SWEEPINGS
BJC09914A	WASTE MANAGEMENT	PORTSMOUTH - SW-3 FLOOR SWEEPINGS
BVGWES	Reservation Cleanup and Waste Management	Bethel Valley Groundwater Engineering Study
CNF 2003	URS/Radian	2003 CNF NPDES Monitoring
CNF INFLUE	Radian	Radian Influent Sampling
CNF NNPDES	Radian	Radian CNF NPDES Monitoring
EMWWMFNICKE	bechteljacobscompany	Environmental Management Waste Management Facility
EWQP-2002	Water Resources Restoration Program	ETTP Water Quality Program - FY2002
EWQP-2003	WRRP	ETTP WQP - FY2003
INSTMAN	Q Systems, Inc	Instruction Manual Project
K102	ETTP Environmental Management	NPDES Stormdrains

This screen displays the list of available projects assigned to the login user with a specific role.

If you cannot find a project that you need to access, contact the appropriate Project Data Coordinator to request access.

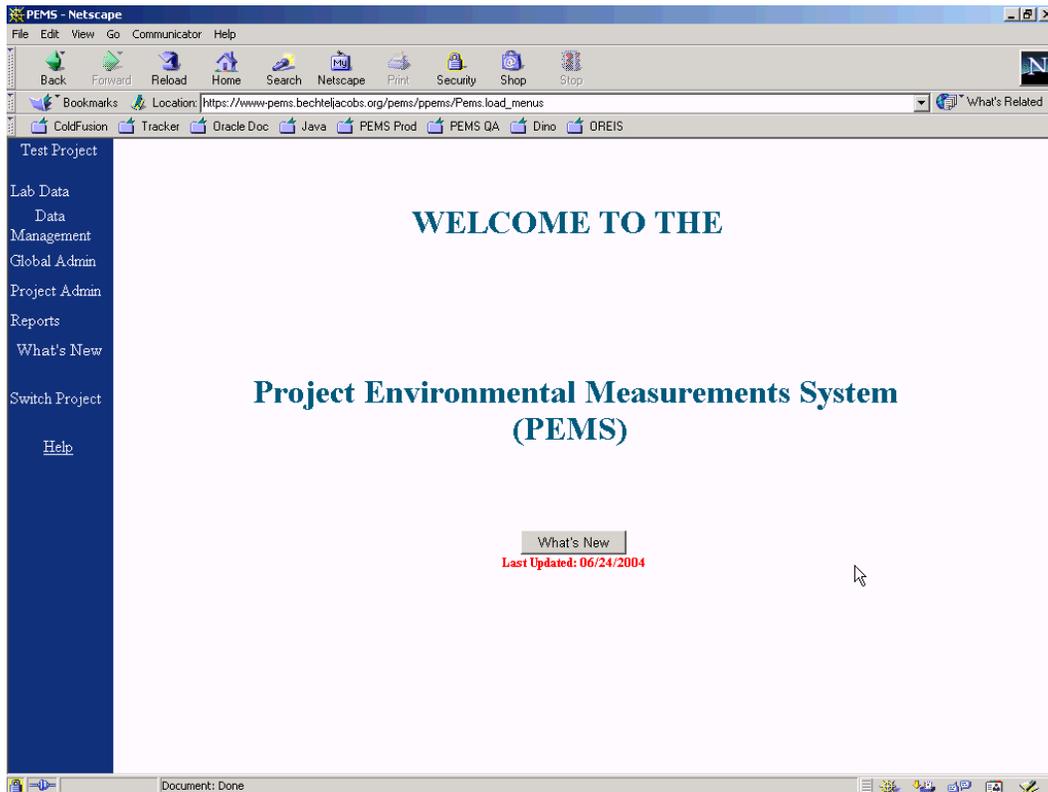
Choose A Statement of Work



This screen displays the list of available Statement Of Work (SOW) assigned to the login user with a specific role.

If you cannot find a SOW that you need to access, contact the appropriate Project Data Coordinator to request access.

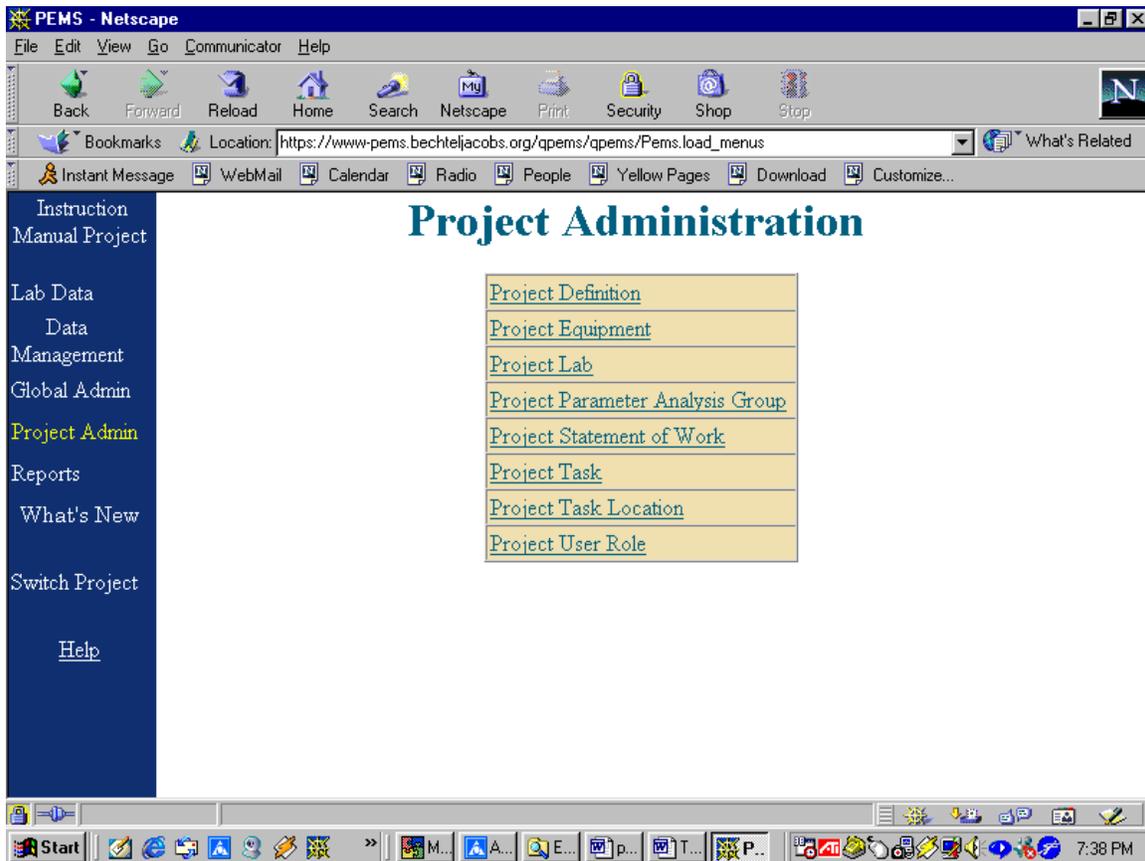
Welcome to PEMS



The available menu options are on the left side of the screen depending on the login user's role assignment.

	Lab Data	Data Management	Global Admin	Project Admin	Reports	What's New	Switch Project	Help
DBA	√	√	√	√	√	√	√ If > 1 project	√
Project Data Coordinator	√	√	√	√	√	√	√ If > 1 project	√
Sample Planner		√	√	√	√	√	√ If > 1 project	√
Laboratory	√		√			√	√ If > 1 project	√
Validator / Verifier		√	√		√	√	√ If > 1 project	√
Reports Viewer			√		√	√	√ If > 1 project	√

Project Administration Main Menu



The Project Admin Main Menu contains all of the options used for the creation of a new project or the administration of an existing project. The options available to users for sampling efforts are affected by the information entered using this Project Admin Main Menu.

Project Definition

PEMS - Netscape

File Edit View Go Communicator Help

Back Forward Reload Home Search Netscape Print Security Shop Stop

Bookmarks Location: https://www-pems.bechteljacobs.org/qpems/qpems/Pems.load_menus What's Related

Instant Message WebMail Calendar Radio People Yellow Pages Download Customize...

Instruction Manual Project

Lab Data Data Management Global Admin **Project Admin** Reports What's New Switch Project Help

Project Definition

Required fields are marked with +

Add A Project

ID No.:	INSTMAN
Sponsor:	Q Systems, Inc +
Name:	Instruction Manual Project +
Begin Date(mm/dd/yyyy):	11/26/2002 +
Sample Org Name:	Q Systems, Inc +
OU Acronym:	
RQMT Source ID:	
End Date(mm/dd/yyyy):	
ESO Number:	

Document: Done

Start M... A... E... p... T... P... 7:41 PM

This screen displays detail information for the current project. It contains the project sponsor, a descriptive name for the project, the technical contacts, the duration of the project and so on. On this screen the user can edit information for the current project. By clicking on the Continue icon (not shown), it saves the detail information for the current project and moves on to the Project Equipment Main Screen.

The *Add A Project* button allows the user to create a project by entering the new project detail information on New Project Definition screen.

New Project Definition

Test of PEMS functionality after upgrade of OS to Solaris 9

Lab Data
Data Management
Global Admin
Project Admin
Reports
What's New
Switch Project
Help

New Project Definition

Required fields are marked with +

Add A Project

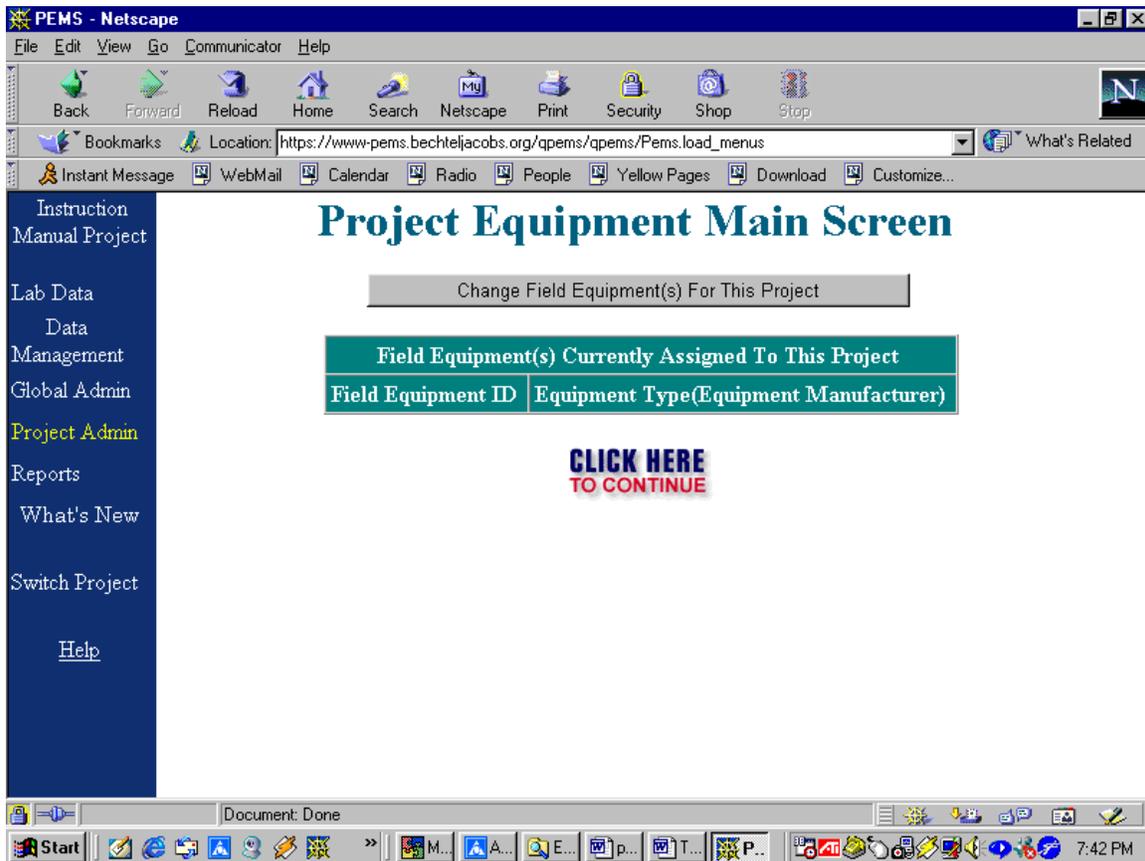
ID No.:	<input type="text"/>	+
Sponsor:	<input type="text"/>	+
Name:	<input type="text"/>	+
Begin Date(mm/dd/yyyy):	<input type="text"/>	+
Sample Org Name:	<input type="text"/>	+
OU Acronym:	<input type="text"/>	
RQMT Source ID:	<input type="text"/>	
End Date(mm/dd/yyyy):	<input type="text"/>	
ESO Number:	<input type="text"/>	
Manager Name:	<input type="text"/>	+

Project Definition Internet

This screen allows the user to enter detail information for a new project.

By clicking on the Continue icon (not shown), it saves the detail information for the new project, which automatically becomes the current project and moves on to the Project Equipment Main Screen.

Project Equipment Main Screen



The Project Equipment Main Screen displays field equipments defined for the current project. By clicking the Continue icon, it moves on to the Project Lab Main Screen.

The *Change Field Equipment(s) For This Project* button allows the user to define field equipments on the Add Field Equipment To Project screen.

Add Project Equipment Screen

Instruction Manual Project

Lab Data

Data Management

Global Admin

Project Admin

Reports

What's New

Switch Project

Help

Add Field Equipment To Project

CLICK HERE TO CONTINUE

	Field Equipment ID	Equipment Type(Equipment Manufacturer)
<input type="checkbox"/>	01	WATER QUALITY CHECKER(UNKNOWN)
<input type="checkbox"/>	1	ANEMOMETER(JERIATRIKS)
<input type="checkbox"/>	10510	WATER LEVEL INDICATOR(UNKNOWNQ)
<input type="checkbox"/>	12	AUTOMATIC SAMPLER(AIRFLOW)
<input type="checkbox"/>	123	ANEMOMETER(BECHTEL)
<input type="checkbox"/>	12345	ANEMOMETER(AIRFLOW)
<input type="checkbox"/>	2	BUBBLER FLOW METER(NOTINLIST)
<input type="checkbox"/>	3	ANEMOMETER(AIRFLOW)
<input type="checkbox"/>	4	DATA LOGGER(AIRFLOW)
<input type="checkbox"/>	555	DATA LOGGER(SILVA)

Document: Done

Start | M... | A... | E... | p... | T... | P... | 7:44 PM

This screen displays the equipment available in the PEMS system. The user can select the checkbox(es) which will mark the field equipment(s) to be added for the current project.

By clicking the Continue icon, it saves the selection and returns to the Project Equipment Main Screen.

Project Lab Main Screen

PEMS - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Mail Print Edit

Address http://oratest.qsystems.net:7777/dino/Pems.load_menus Go Links >>

Project Lab Main Screen

Laboratory(s) Currently Assigned To This Project	
Lab Code	Lab Name
ACO	BWXT-ACO
BARR	Barringer Laboratory, Inc. Golden, Colorado
EBERTN	Eberline Services - Oak Ridge
RECRA	Lionville Laboratory
SWRI	Southwest Research Institute, San Antonio, TX
THEROR	Eberline Services - Oak Ridge, TN

CLICK HERE TO CONTINUE

Project Lab Internet

The Project Lab Main Screen shows all labs defined for the current project.

By clicking the Continue icon, it moves on to the Project Parameter Analysis Group Main Screen.

Project Parameter Analysis Group Main Screen

PEMS - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Mail Print Edit

Address http://oratest.qsystems.net:7777/dino/Pems.load_menus Go Links

Testing NEW

Lab Data

Data Management

Global Admin

Project Admin

Reports

What's New

Switch Project

Help

Project Parameter Analysis Group Main Screen

Add Analysis Group(s) For This Project

Delete Analysis Group(s) From This Project

Analysis Group(s) Currently Assigned To This Project	
Analysis Group Code	Analysis Group Name
%SOLIDS	Percent Solids
%U235	Percent U235

CLICK HERE TO CONTINUE

Continue Internet

This screen shows all analysis groups defined for the current project. This information is used in the sampling effort to relate samples to the desired analyses. By clicking the Continue icon, it moves on to the Project Statement Of Work Main Screen.

The *Add Analysis Group(s) For This Project* button displays a list of analysis groups to be added on the Add Parameter Analysis Group To Project screen.

The *Delete Analysis Group(s) From This Project* button displays a list of eligible analysis groups to be removed on the Delete Parameter Analysis Group From Project screen.

Delete Parameter Analysis Group From Project

Test of PEMS functionality after upgrade of OS to Solaris 9

Lab Data
Data Management
Global Admin
Project Admin
Reports
What's New
Switch Project
Help

Delete Parameter Analysis Group From Project

CLICK HERE TO CONTINUE

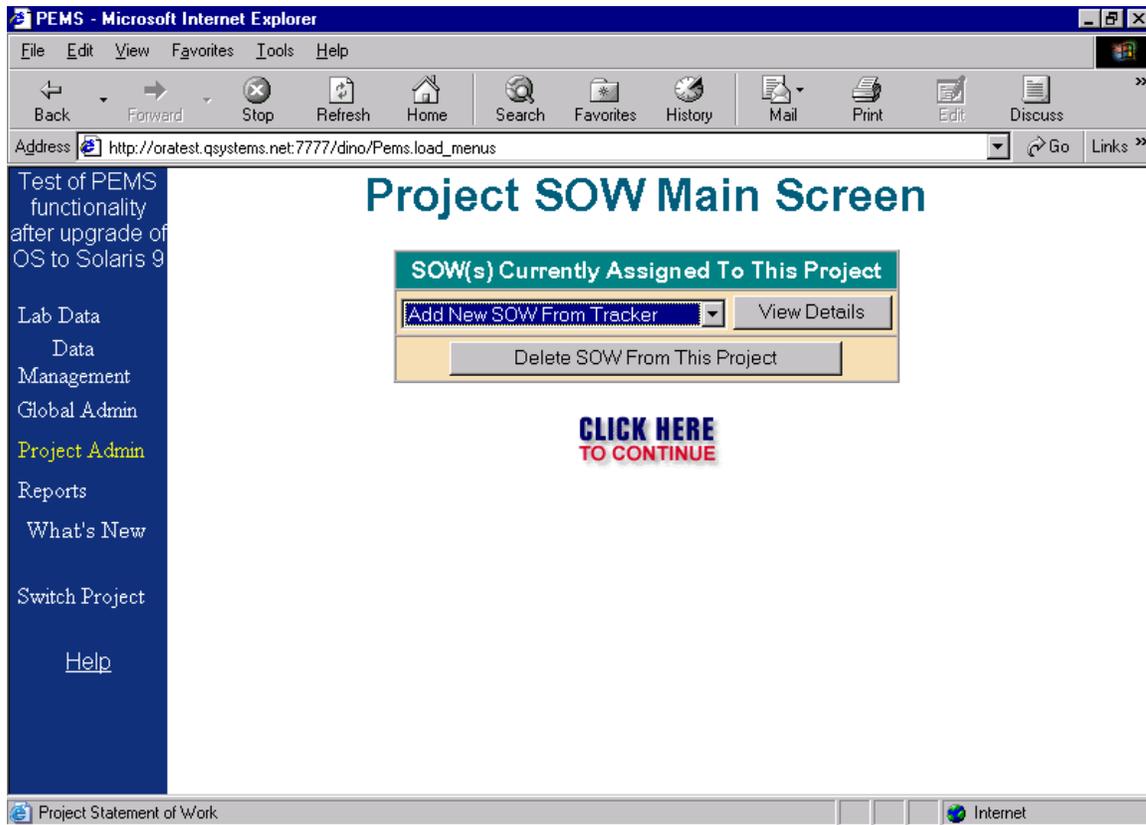
Delete	Code	Name
<input type="checkbox"/>	%U235	Percent U235
<input type="checkbox"/>	1514RADS	Am-Iso,Np-237,Pu-Iso,Th-Iso,U-Iso,%U-235>Total U,TC-99
<input type="checkbox"/>	ORWC-BAL	Bal. of SAP for inorganics
<input type="checkbox"/>	ZN-NONPRES	Nonpreserved Zinc Sample

CLICK HERE TO CONTINUE

This screen shows the analysis groups, which have been defined for the current project but they have not been associated with any sample. These analysis groups are eligible to be deleted from the current project. The user can select the checkbox(es) which mark the analysis group(s) to be removed.

By clicking the Continue icon, it removes the checked analysis group(s) and returns to the Project Parameter Analysis Group Main Screen.

Project Statement of Work Main Screen



This screen is the main entry point for defining statements of work (SOWs) that will direct the sampling effort. The pick list contains “Add New SOW From Tracker”, “Add A SOW That Is Not In Tracker” and all statements of work created for the current project. The *View Details* button will activate the selection from the pick list. By clicking the Continue icon, it moves on to the Project Task Main Screen.

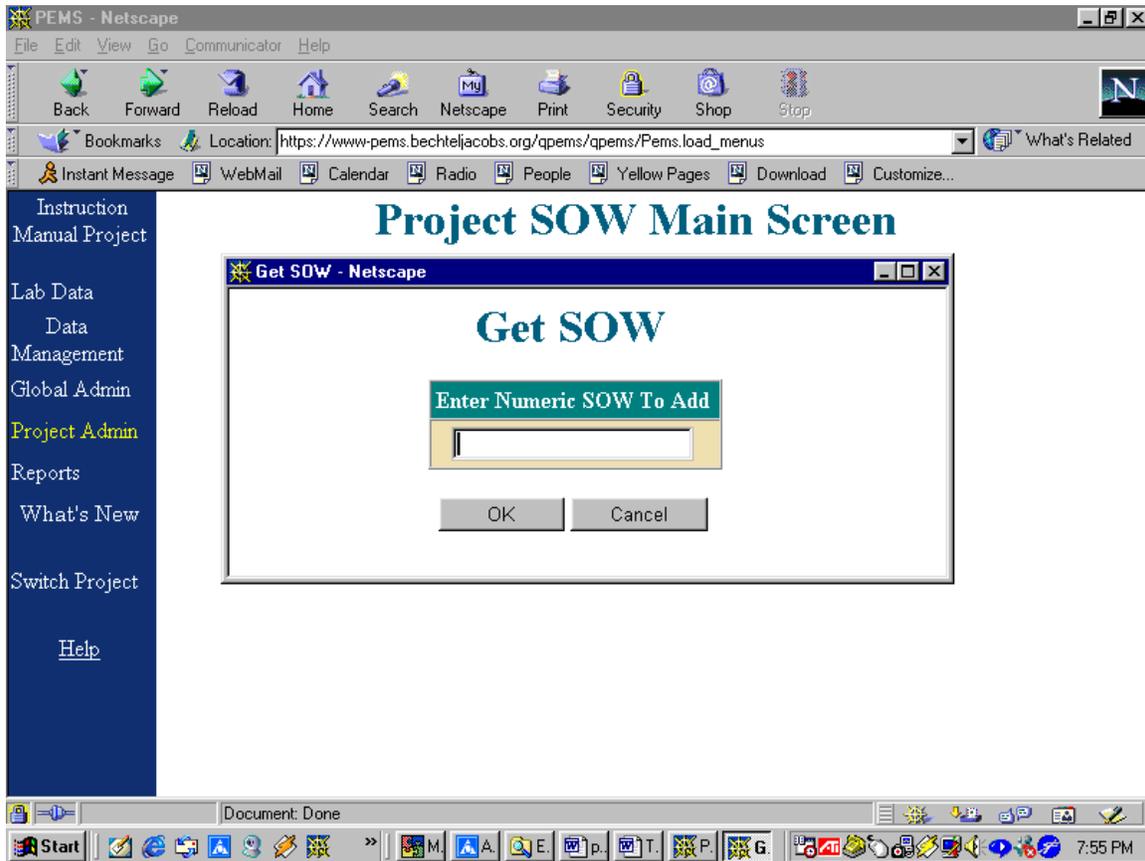
When selecting “Add New SOW From Tracker”, it pops up the Project SOW Tracker Prompt screen.

When selecting “Add A SOW That Is Not In Tracker”, it displays the Project SOW Non-Tracker screen.

When selecting any defined SOW, it displays the SOW Definition screen.

The *Delete SOW From This Project* button displays a list of eligible SOWs to be removed on the Delete Statement Of Work From Project screen.

Project SOW Tracker Prompt



The Project SOW Tracker Prompt allows the user to enter a SOW number and press the *OK* button. The PEMS system queries TRACKER and displays the SOW information on the SOW Definition screen.

Project SOW Non-Tracker Screen

PEMS - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Discuss

Address http://oratest.qsystems.net:7777/dino/Pems.load_menus Go Links

Test of PEMS functionality after upgrade of OS to Solaris 9

Lab Data
Data
Management
Global Admin
Project Admin
Reports
What's New
Switch Project
Help

Add A SOW That Is Not In Tracker

Required fields are marked with +

If the desired laboratory is not present in this list,
Contact PEMS Support

SOW No.:	<input type="text"/>
Laboratory:	Air Quality Sciences, Inc-AIRQ
Effective Start Date (mm/dd/yyyy):	10/28/2004

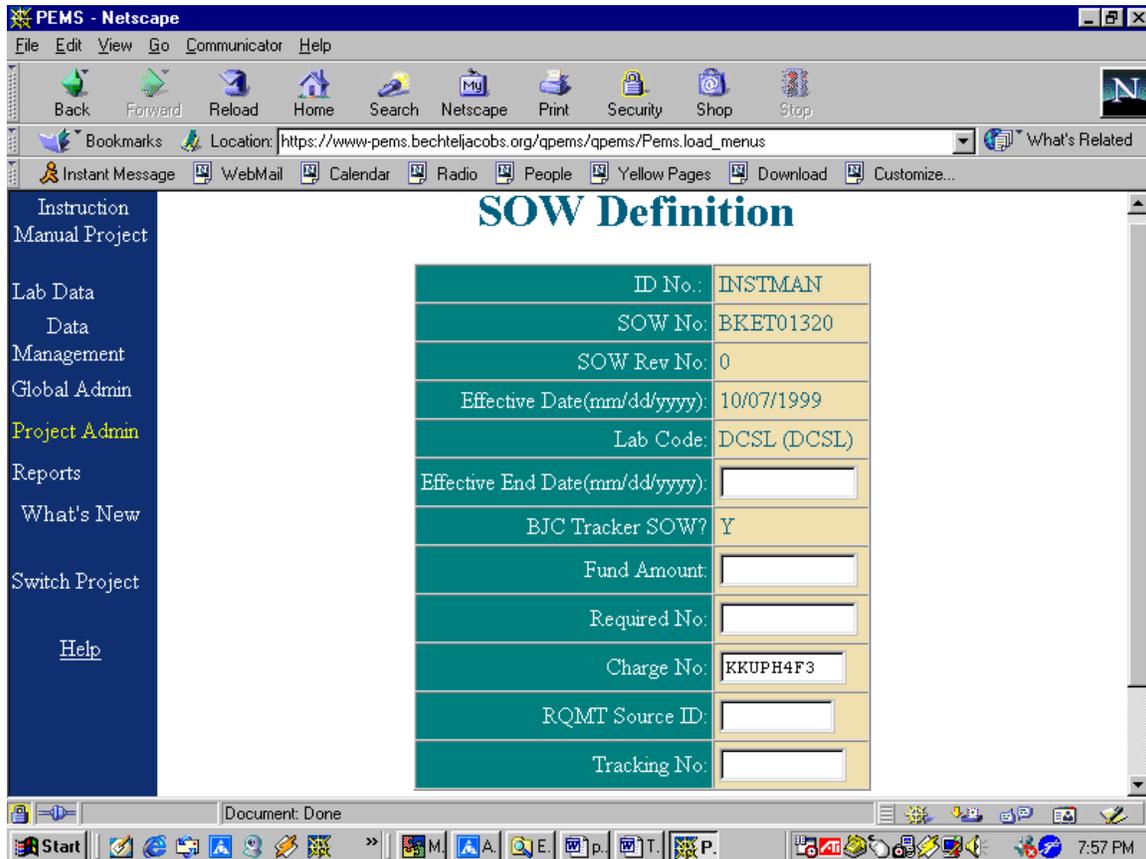
CLICK HERE TO CONTINUE

Project Statement of Work Internet

The Project SOW Non-Tracker screen allows the user to enter a SOW number, select from a pick list of all active laboratories defined in the PEMS system and enter an effective start date.

By clicking the Continue icon, it displays the SOW Definition screen and allows the user to enter SOW information.

SOW Definition Screen



This screen allows user to edit / add information regarding the previous selected / entered SOW number. By clicking the Continue icon, it saves the SOW information and returns to the Project SOW Main Screen.

If the selected Laboratory has not obtained a PEMS user account, it will display the following message:

The statement of work has been created. However, a PEMS user account for the selected laboratory **BARRIN (Barringer Laboratory, Inc. Golden, Colorado) does not exist. The PEMS Home Page contains instructions for requesting a new PEMS account.**

Click on the link below to go to the PEMS Home page, then select "Getting Started".

<https://www-pems.ettp.energy.gov/pems/home/home.html>

Once the account has been created, contact your Project Data Coordinator to grant access to your project for the new user.

Delete Statement Of Work From Project Screen

Test of PEMS functionality after upgrade of OS to Solaris 9

Lab Data

Data

Management

Global Admin

Project Admin

Reports

What's New

Switch Project

Help

Delete Statement Of Work From Project

CLICK HERE TO CONTINUE

Delete	SOW No	SOW Rev. No.	Lab Code
<input type="checkbox"/>	NEWSOWTEST	0	ACO
<input type="checkbox"/>	SOWTEST1	0	BARRIN
<input type="checkbox"/>	SOWTEST1	0	BWLVA
<input type="checkbox"/>	SOWTEST1	0	BWXTVA
<input type="checkbox"/>	SOWTEST1	0	DUKE
<input type="checkbox"/>	SOWTEST5	0	ACO
<input type="checkbox"/>	TESTSOW1	0	BARRIN

CLICK HERE TO CONTINUE

Project Statement of Work

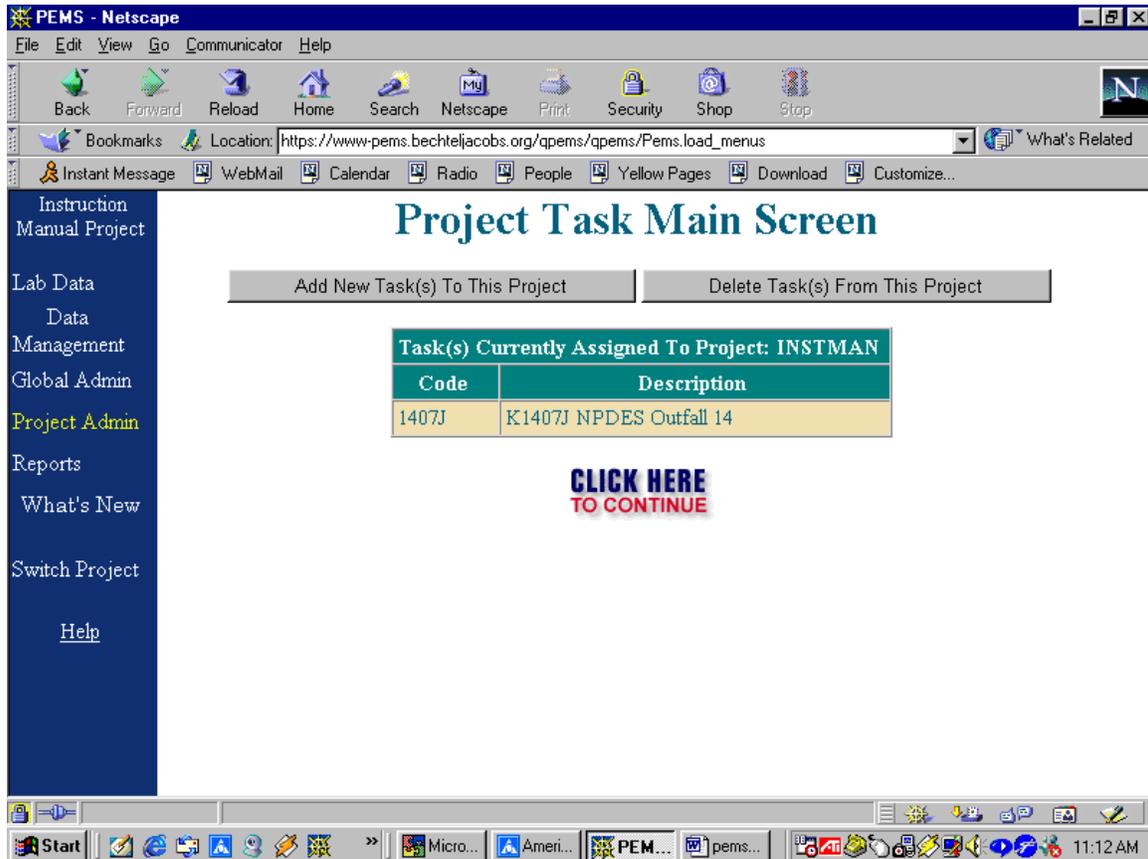
Internet

This screen lists SOWs that have been defined for the current project but they have not been associated with any sampling effort. These SOWs are eligible to be deleted from the current project.

The user can select the checkbox(es) which mark the SOW(s) to be removed from the current project.

By clicking the Continue icon, it removes the checked SOWs and returns to the Project SOW Main Screen.

Project Task Main Screen



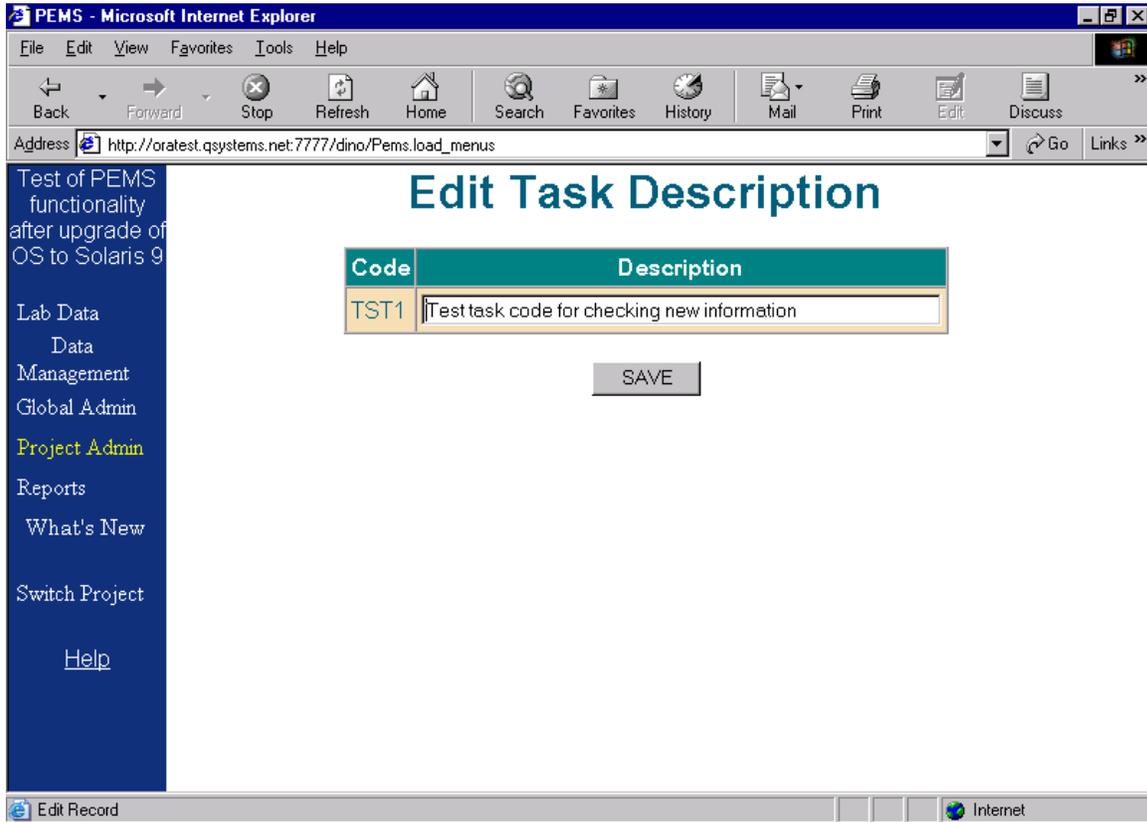
The Project Task Main Screen shows all task codes and their descriptions for the current project.

The user can edit the Description field on the Edit Task Screen by clicking the individual Code / Description shown on the list.

The *Add New Task(s) To This Project* button displays an entry screen for the user to add new task(s) on the Add Task To Project screen.

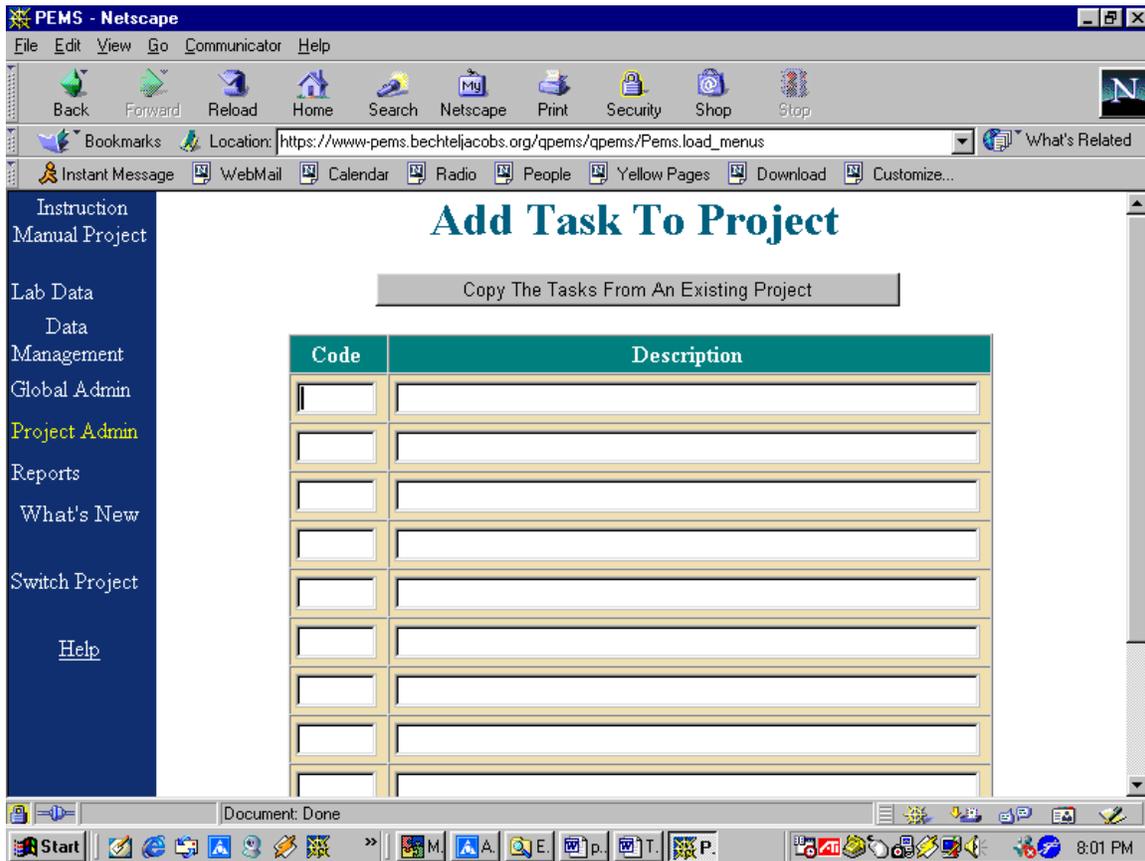
The *Delete Task(s) From This Project* button displays a list of eligible tasks to be removed from the current project on the Project Task Delete screen.

Edit Task Screen



This screen allows the user to modify the description for the selected task. By clicking the *SAVE* button, it saves the description and returns to the Project Task Main Screen.

Add Task To Project Screen



This screen allows user to enter multiple tasks and descriptions for the current project.

By clicking the Continue icon (not shown), it saves the task information and returns to the Project Task Main Screen.

The *Copy The Tasks From An Existing Project* button allows the user to create new tasks for the current project by copying from another project, which the user has eligible access. It displays the Choose Project to Copy Tasks From screen.

Choose Project to Copy Tasks From

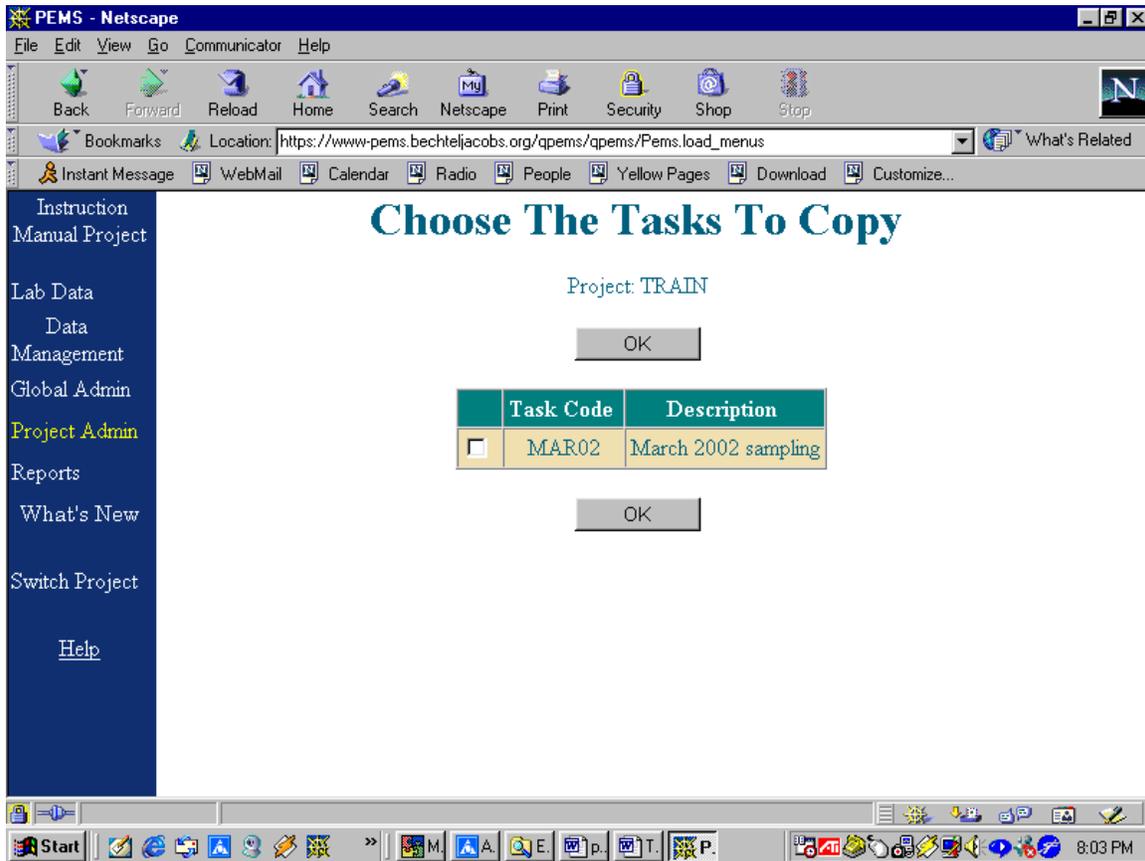
The screenshot shows a Netscape browser window with the following details:

- Title Bar:** PEMS - Netscape
- Address Bar:** Location: https://www-pems.bechteljacobs.org/qpens/qpens/Pems.load_menus
- Page Title:** Choose A Project To Copy Tasks From
- Table:**

ID	Name
AJONES-1	Ajones - check of various
BJC09914	PORTSMOUTH - SW-3 FLOOR SWEEPINGS
BJC09914A	PORTSMOUTH - SW-3 FLOOR SWEEPINGS
BVGWES	Bethel Valley Groundwater Engineering Study
CNF 2003	2003 CNF NPDES Monitoring
CNF INFLUE	Radian Influent Sampling
CNF NNPDES	Radian CNF NPDES Monitoring
EMWMFNICKE	Environmental Management Waste Management Facility
EWQP-2002	ETTP Water Quality Program - FY2002
EWQP-2003	ETTP WQP - FY2003
K102	NPDES Stormdrains
K201	Stormwater Pollution Prevention Program
TEST DAWN	Groundwater Sampling
- Left Sidebar (Navigation):**
 - Instruction Manual Project
 - Lab Data
 - Data Management
 - Global Admin
 - Project Admin**
 - Reports
 - What's New
 - Switch Project
 - Help

This screen shows all the projects, which the user has the privileges to access for copying tasks. When the project is selected, Choose The Tasks to Copy screen is displayed.

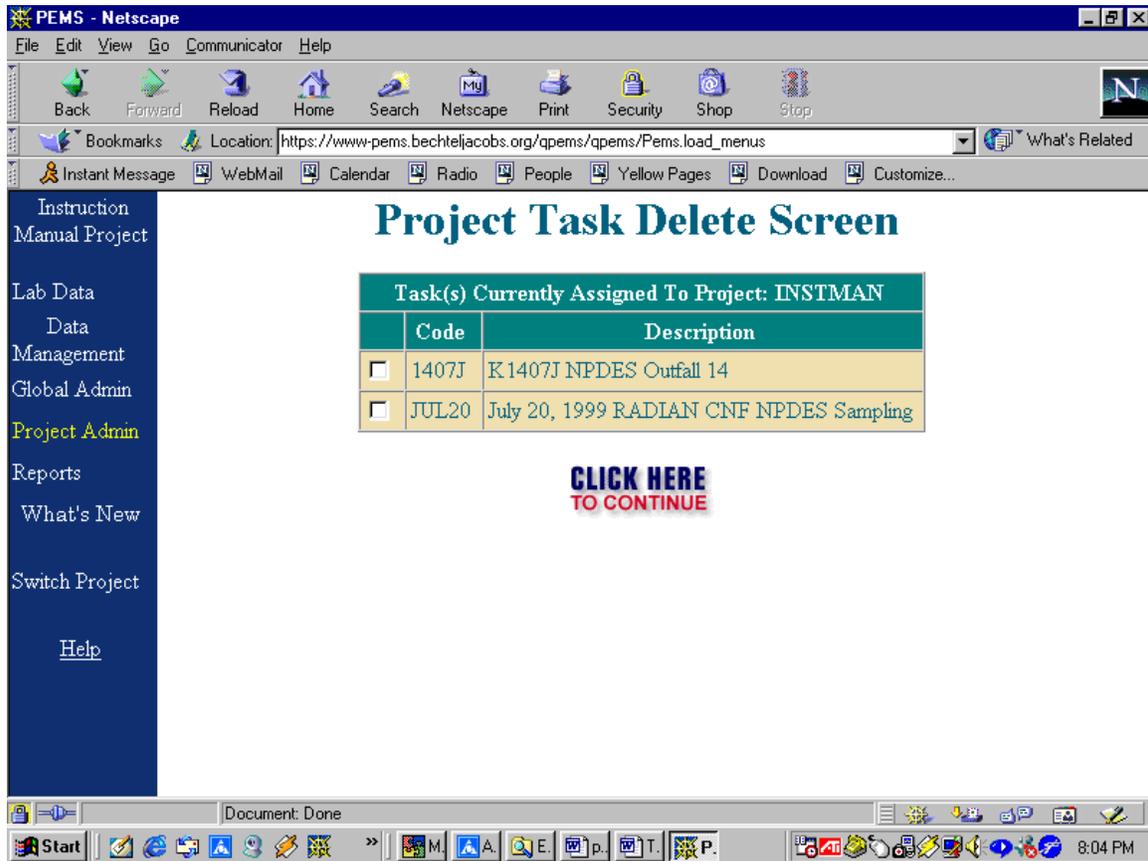
Choose The Tasks To Copy



This screen displays all tasks for the selected project to be copied from. The user can select the checkbox(es) for those task(s) that are needed for the current project.

By clicking OK button, it saves the selection and returns to the Project Task Main Screen.

Project Task Delete Screen

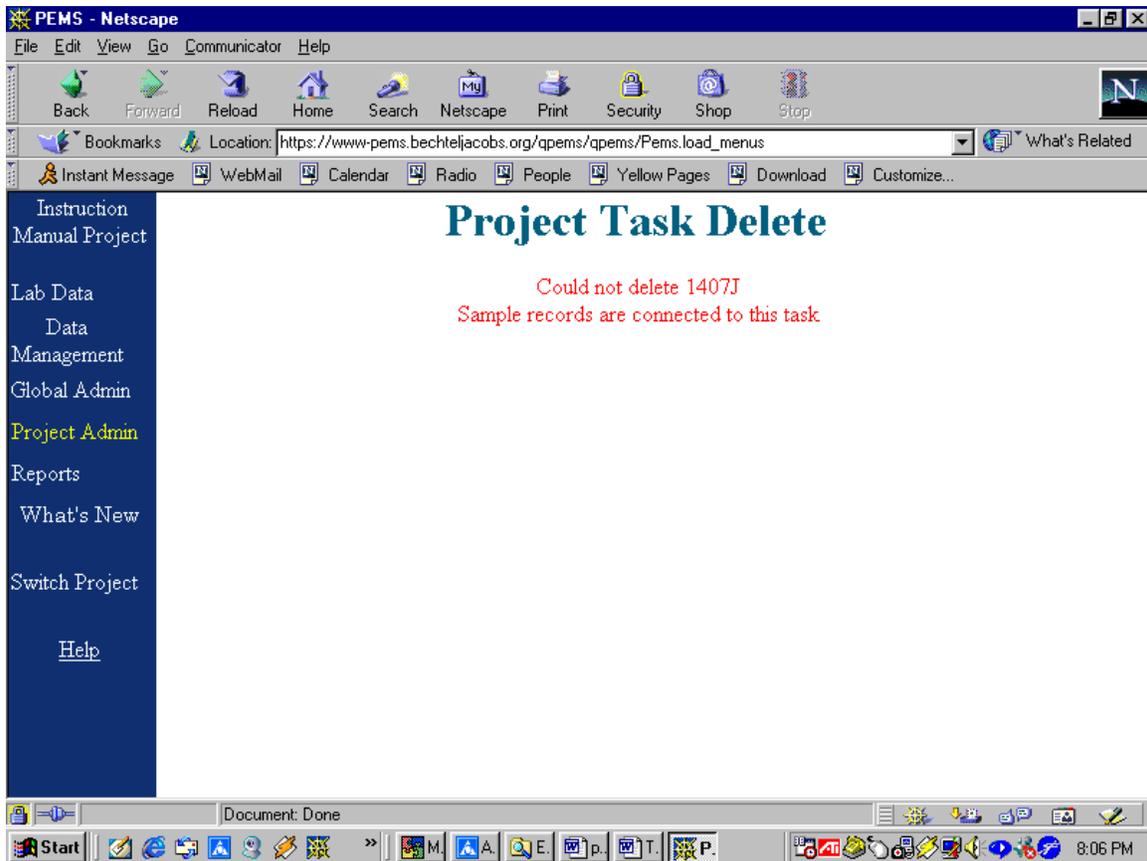


This screen lists tasks that have been defined for the current project. The user can select the checkbox(es) which mark the task(s) to be deleted.

By clicking the Continue icon, it removes the checked tasks and returns to the Project Task Main Screen.

If the task has sample or sample planning associated with it, an error screen will be displayed.

Project Task Delete



This screen displays an error message when it cannot complete the deletion process due to the task association with existing sample or sample planning record.

Project Task Location Main Screen

The screenshot displays the 'Project Task Location Main Screen' within a Microsoft Internet Explorer browser window. The browser's address bar indicates the URL: https://www-pems.bechteljacobs.org/qpems/qpems/Pems.load_menus. The page title is 'PEMS - Microsoft Internet Explorer provided by EEGC Computer Service Center'. The browser's menu bar includes 'File', 'Edit', 'View', 'Favorites', 'Tools', and 'Help'. The address bar contains navigation buttons for 'Back', 'Forward', 'Home', 'Search', 'Favorites', and 'Go'. The main content area is titled 'Project Task Location Main Screen' and features a button labeled 'Change Task Locations For This Project'. Below this button is a table titled 'Task Location(s) Currently Assigned To This Project' with the following data:

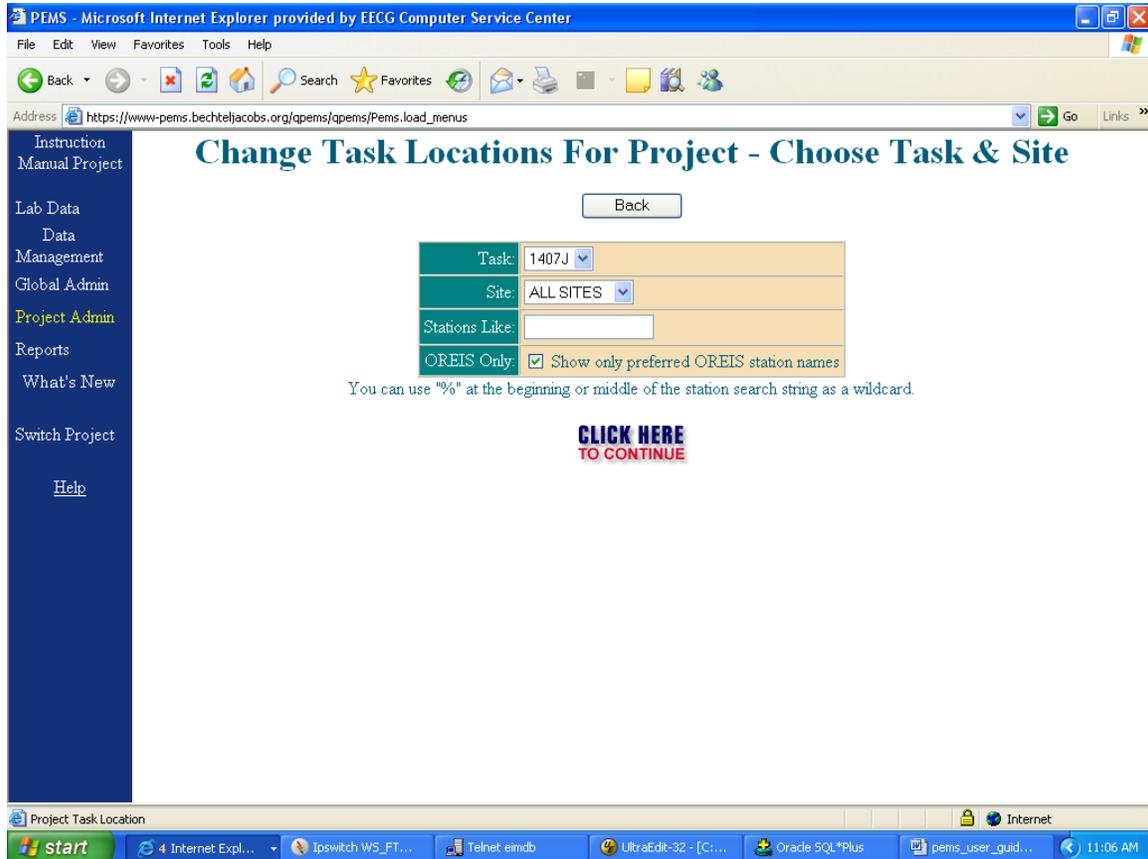
Task	Monitoring Location	Site
1407J	26-005	K-25
1407J	8002	K-25

The Windows taskbar at the bottom shows the 'start' button, several open applications including 'Internet Expl...', 'Ipswitch WS_FT...', 'Telnet eimdb', 'UltraEdit-32 - [C:...', 'Oracle SQL*Plus', and 'pems_user_guid...', and the system clock showing '11:06 AM'.

This screen shows all monitoring locations assigned to tasks for the current project.

The *Change Task Locations For This Project* button allows the user to add / edit / remove monitoring locations assigned to the corresponding task. By clicking this button, it displays the Change Task Location For Project – Choose Task & Site screen.

Change Task Locations For Project – Choose Task & Site Screen



This screen allows the user to select the combination of Task and Site from the corresponding pick list and filter the selection by partial station names and preferred OREIS station names options. The Task pick list contains tasks defined for the current project. The Site pick list contains all available sites in PEMS system.

By clicking the Continue icon, it displays the Change Task Locations For Project Screen with a list of monitoring location information.

The *Back* button allows the user to go back to the Project Task Location Main Screen.

Change Task Locations for Project Screen

Instruction
Manual Project

Lab Data
Data
Management
Global Admin
Project Admin
Reports
What's New
Switch Project
Help

Change Task Locations For Project
Task Code: 1407J
Site: %%

Back

CLICK HERE TO CONTINUE

Note: Location Descriptions are truncated to 60 characters.
Locations currently in use for samples or field measurements cannot be deleted from the task.
Removing a location from a task will also remove the location from the Task Reference and Task Map for that task.
An * after the location name indicates a preferred OREIS location.

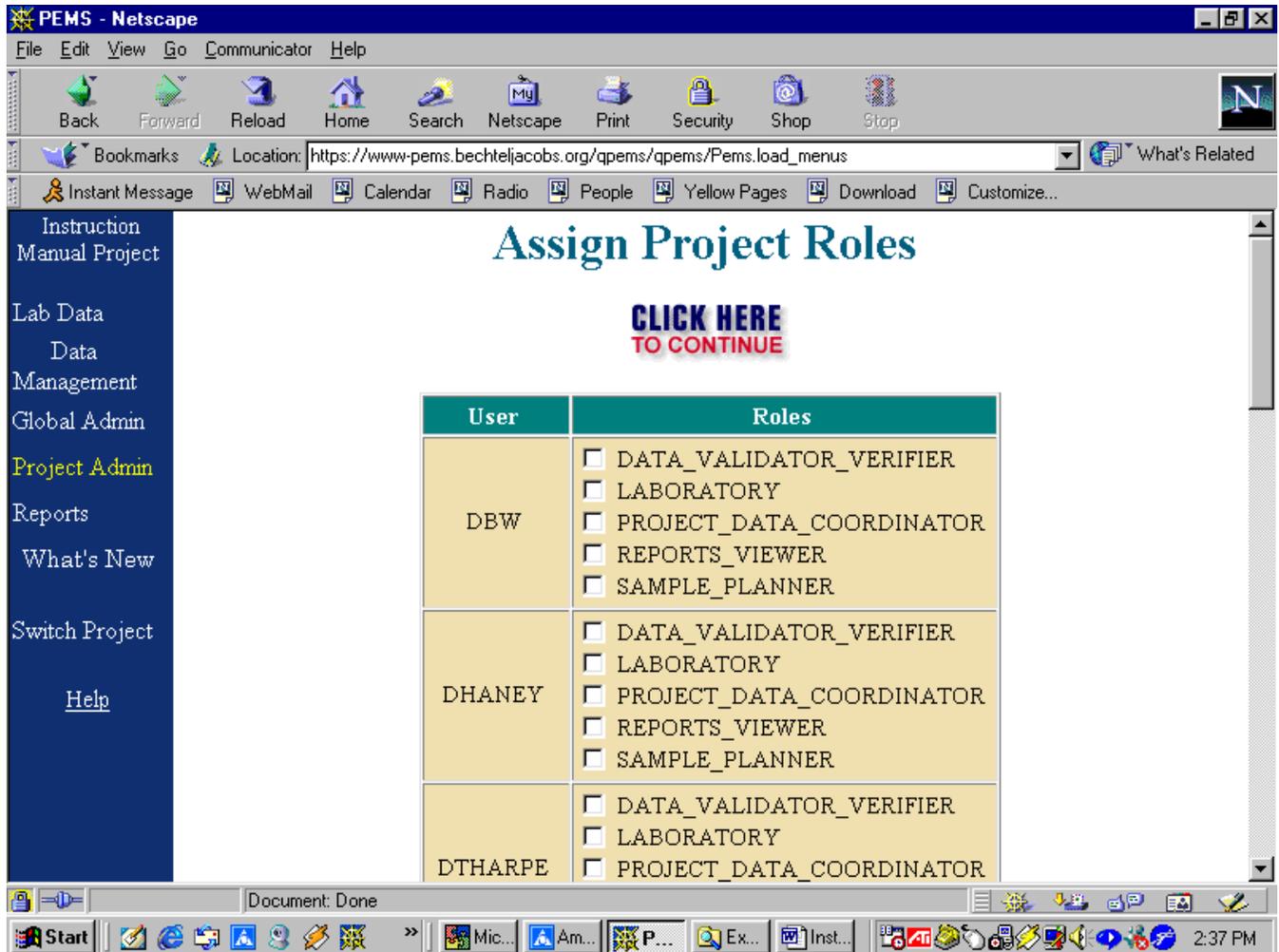
Monitoring Location	Aliases	Monitoring Description	Site
<input type="checkbox"/> 0009			X-10
<input type="checkbox"/> 0015			X-10
<input type="checkbox"/> 0016			X-10
<input type="checkbox"/> 0020			X-10
<input type="checkbox"/> 0032			X-10
<input type="checkbox"/> 004	Outfall 4.		Y-12
<input type="checkbox"/> 0041			X-10
<input type="checkbox"/> 0043			X-10
<input type="checkbox"/> 0045			X-10

This screen displays all monitoring locations available in the PEMS system except those locations are defined to the task and have already been associated with sampling effort.

On the shown list, if the location has been defined to the task but it has not been associated with sampling effort, the checkbox is shown with a check mark. The user can select / de-select the checkbox(es) to add / remove the monitoring location from the selected task.

By clicking the Continue icon, it saves the selection and returns to the Project Task Location Main Screen.

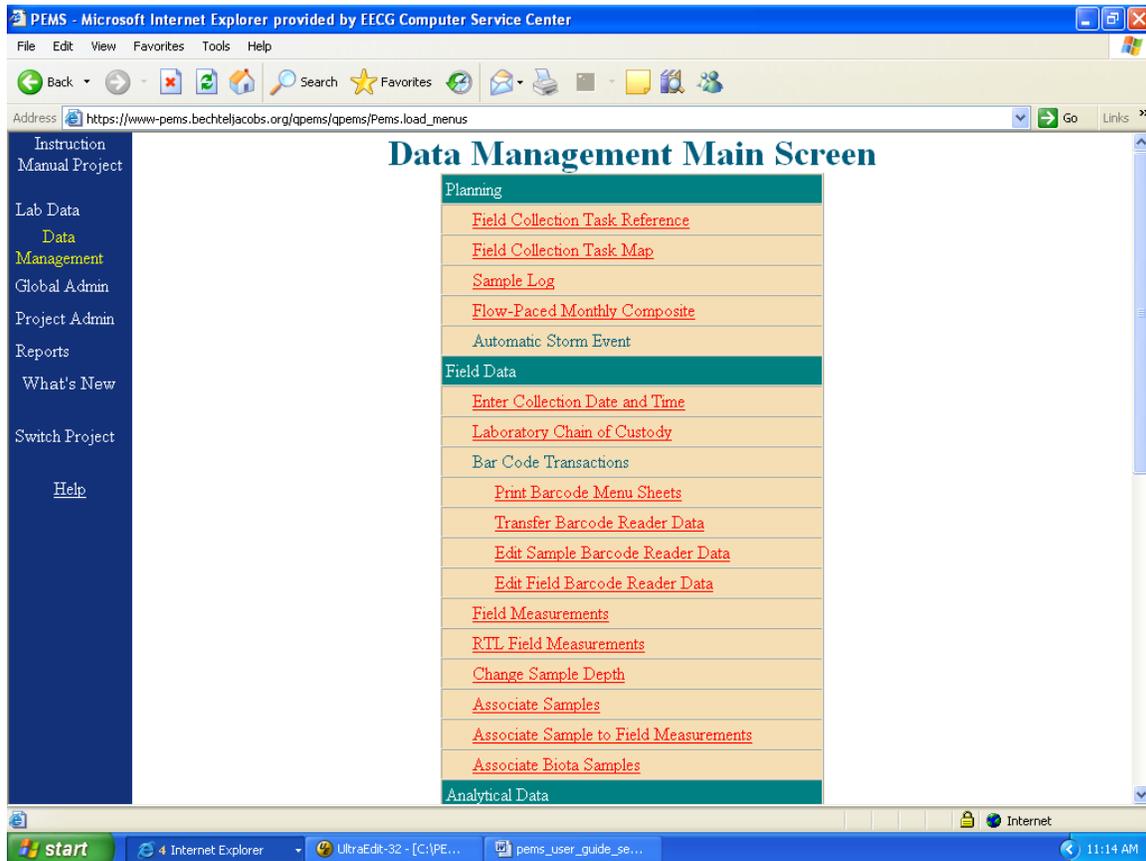
Project User Roles



If the user has the appropriate privileges, this screen will be displayed when the Project User Role is selected on the Project Admin Main Menu. The Assign Project Roles screen displays the available roles for every user in the PEMS system. If the box is shown checked, the corresponding user has the associated role.

The user can select / de-select the checkbox(es) to determine the roles assigned for the corresponding user. By clicking the Continue icon, it saves the selection and returns to the Project Admin Main Menu.

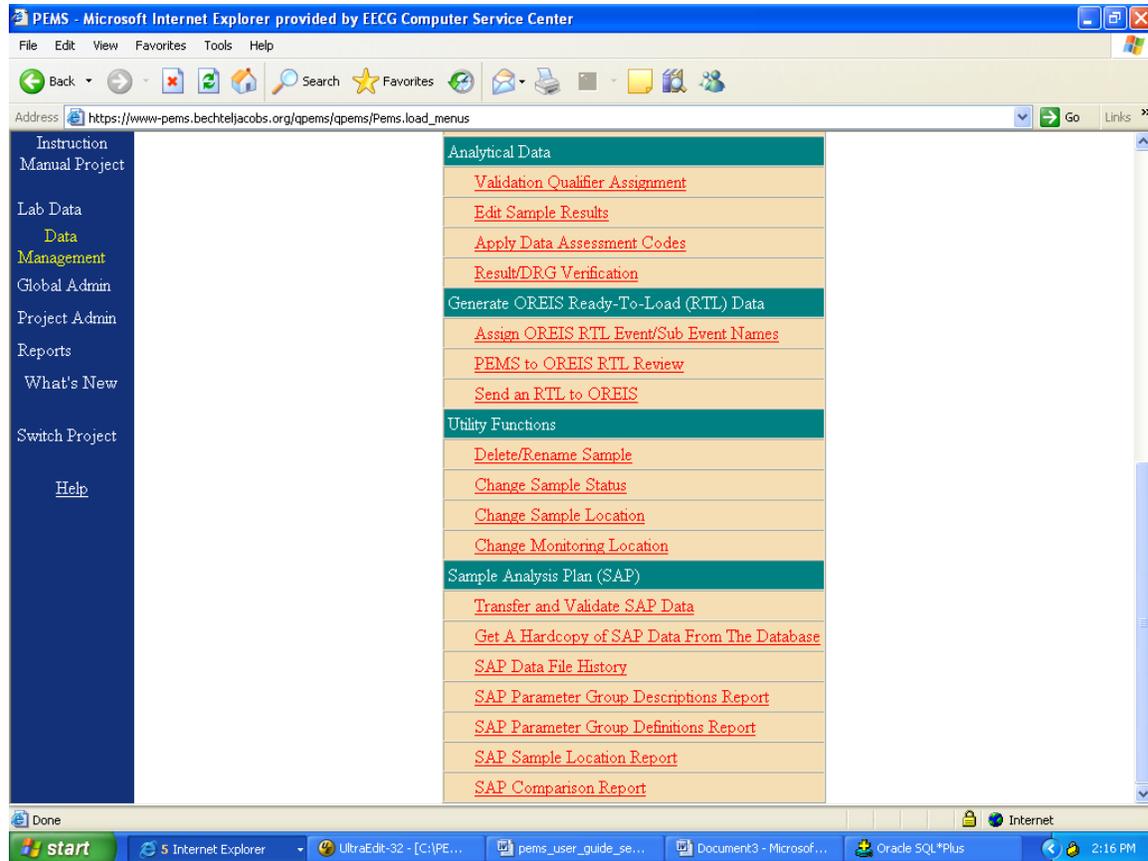
Data Management Main Screen (Part I)



Sample Planning can start at Field Collection Task Reference and Field Collection Task Map where the user can set up tasks on how to collect samples at assigned location. The user can also set up samples at Sample Log. The Flow-Paced Monthly Composite is used to define those samples are to be split for analysis.

Field Data section provides capabilities for the user to update sample information during the collection process and prepare the samples to be sent to laboratory for analysis.

Data Management Main Screen (Part II)



The Analytical Data & Generate OREIS Ready-To-Load (RTL) Data section are used when the laboratories send back sample results, the user can investigate the results and make adjustment as needed. The results can be ready to transfer to OREIS.

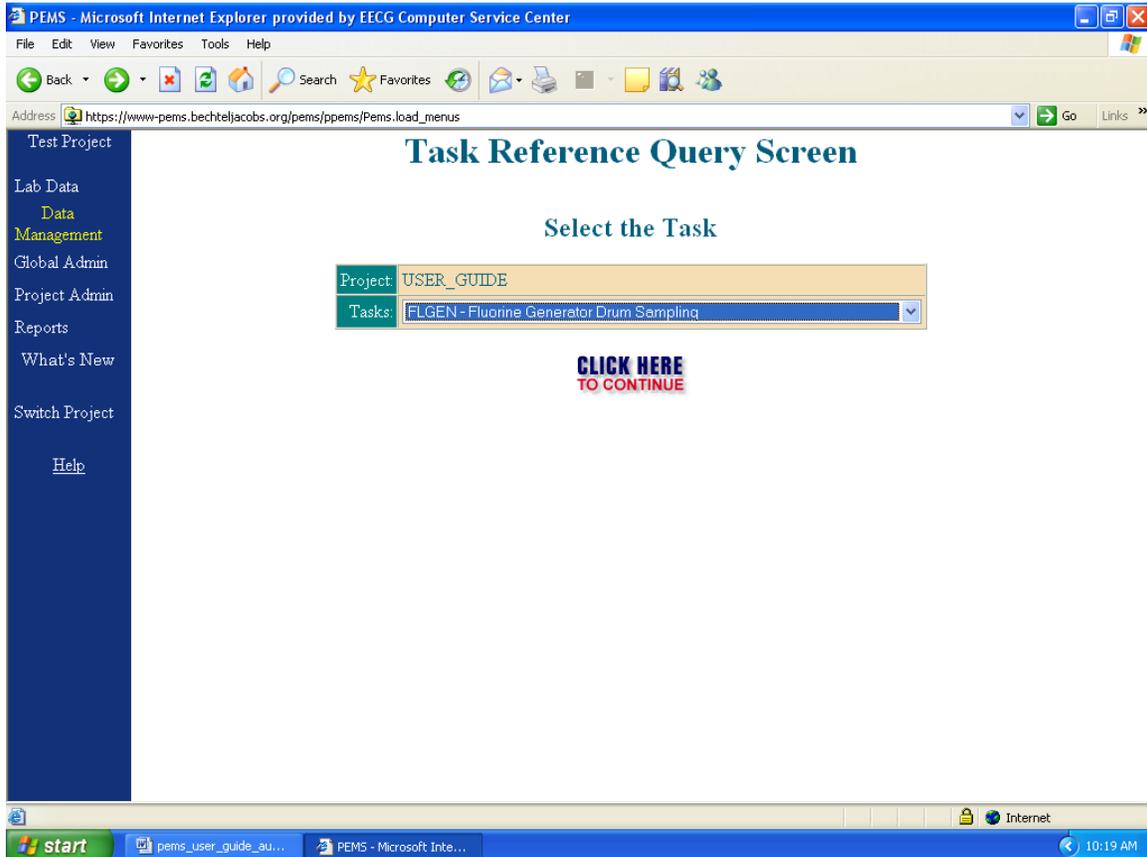
The Utility Functions section is used during the whole cycle sampling efforts as needed.

The Sample Analysis Plan section is used to load the plan for sample analysis before the beginning of a fiscal year. It provides reports for the user to monitor the sampling efforts.

Planning

Field Collection Task Reference

Task Reference Query Screen



This screen displays a pick list of all tasks that are defined for the current project. The user can select All Tasks or a specific task to edit Task Reference information.

By clicking the Continue icon, it displays a list of task references (if any) on the Field Collection Task Reference Main Screen.

Field Collection Task Reference Main Screen

Sequence	Task	Matrix	Species	Monitoring Location	Preservative	Analytical Group	Label Quantity	Sample Type	Col Dev	Collection FOP	Collection FOP Rev	Cont Vol
100	FLGEN	WQ	-	MULTI	HNO3	RAD-WATER	1	RIN	GRA	PO-SE-T2309	0	1
101	FLGEN	WQ	-	MULTI	HNO3	TCLP-MET	1	RIN	GRA	PO-SE-T2309	0	1
102	FLGEN	WQ	-	MULTI	CHILL	MANYMETHOD	1	RIN	GRA	PO-SE-T2309	0	1
103	FLGEN	WQ	-	MULTI	HCL	METH/VOC/W	1	RIN	GRA	PO-SE-T2309	0	1
110	FLGEN	SZ	-	MULTI	---	RAD-SOLID	1	REG	CMP	PO-SE-T2309	0	1
111	FLGEN	SZ	-	MULTI	CHILL	TCLP-MET	1	REG	CMP	PO-SE-T2309	0	4
112	FLGEN	SZ	-	MULTI	CHILL	MANYMETHOD	1	REG	CMP	PO-SE-T2309	0	1
113	FLGEN	SZ	-	MULTI	CHILL	TCLPFULLX5	1	REG	CMP	PO-SE-T2309	0	1

The Field Collection is used to create a template for sample collection activities group by task. The template may be modified at any time during the course of the project to add or remove records as needed. By clicking any column on each row, it displays the Field Collection Task Reference Detail screen for the user to edit task reference information.

The *Duplicate Record* button allows the user to add a task reference by copying from an existing task reference on the Field Collection Task Reference Main Screen.

The *New Record* button allows the user to enter new sample collection activities. It displays the Field Collection Task Reference Detail screen.

The *Renumber Sequence* button allows the user to re-order the Sequence number. It displays the Renumbering Field Collection Task Reference screen.

N.B. Depending upon resolution of the user's PC, portions of this screen may not be visible. Use the scroll bar at the bottom of the screen to see all of the data.

Field Collection Task Reference Detail Screen (Part I)

PEMS - Microsoft Internet Explorer provided by EECG Computer Service Center

Address: https://www-pems.bechteljacobs.org/pems/ppems/Pems.load_menus

Field Collection Task Reference

Required fields are marked with *

Save Data Save Data and Add Another Record Delete This Record

Field Sequence:	100
Project Task Code/Location:	FLGEN/MULTI *
Multiple Locations?:	YES
Matrix:	WQ-Water Quality Control Matrix
Species:	
Collection Device:	GRA-GRAB SAMPLING
Collection FOP/Revision:	PO-SE-T2309/Rev. 0 (Sampling Solid and Liquid Wastes)
Container Volume:	1
Container Unit:	L Search
Container Type:	POLY
Process:	GRAB
Collection Method:	
Averaging Period:	
Sample Frequency:	1
Preservative:	HNO3 (NITRIC ACID TO PH <2.0)

Edit Record

start pems_user_guide_au... PEMS - Microsoft Inte... 10:20 AM

This screen allows user to enter all sample collection information. Both Field Sequence and Project Task Code/Location fields are mandatory. When the field contains a pick list of eligible values, the user can select an appropriate value to define the field.

Field Sequence must have numeric value to put the planned sampling in sequential order. The user can group related collection information by assigning the sequence in certain number series (e.g. 500 series for Trip Blank, 1000 series for Regular samples).

The Multiple Location field contains 'No' and 'Yes' values. The 'No' value will just keep the selected value in the Project Task Code/Location field. The 'Yes' value will automatically generate sample collection activities for all locations defined on the selected task value in the Project Task Code/Location field. The automated population for all locations is done in Field Collection Task Map.

Field Collection Task Reference Detail Screen (Part II)

Field Sequence:	100
Project Task Code/Location:	FLGEN/MULTI
Multiple Locations?:	YES
Matrix:	WQ-Water Quality Control Matrix
Species:	
Collection Device:	GRA-GRAB SAMPLING
Collection FOP/Revision:	PO-SE-T2309/Rev. 0 (Sampling Solid and Liquid Wastes)
Container Volume:	1
Container Unit:	L <input type="button" value="Search"/>
Container Type:	POLY
Process:	GRAB
Collection Method:	
Averaging Period:	
Sample Frequency:	1
Preservative:	HNO3 (NITRIC ACID TO PH <2.0)
Analytical Group:	RAD-WATER (Radiochemical Analytes/Total Metals (Water))
Label Quantity:	1
Sample Type:	RIN (Rinsate)

Buttons:

The *Search* button at the Contain Unit field provides a pop-up window with a pick list of all containers' volume, unit and type for the user to select. By clicking the *OK* button, it closes the pop-up window and populates the selected values into Container's Volume, Unit and Type.

By clicking the *Save Data* button, it saves information and returns to the Field Collection Task Reference Main Screen.

By clicking the *Save Data and Add Another Task* button, it saves the information and clears the value in Field Sequence. All other values remain as it helps to speed data entry for similar samples.

Field Collection Task Reference Main Screen (Duplicate Record)

The screenshot shows a web browser window titled "PEMS - Microsoft Internet Explorer provided by EEGC Computer Service Center". The address bar shows the URL: https://www-pems.bechteljacobs.org/pems/ppems/Pems.load_menus. The main content area is titled "Field Collection Task Reference" and features three buttons: "Duplicate Record" (with a red arrow icon), "New Record", and "Renumber Sequence". Below the buttons, a text box explains: "When 'Duplicate Record' is enabled, an arrow will appear next to the button. Clicking on a record below will open an edit screen for a new record that is an exact copy of the record selected." A table with 13 columns and 13 rows of data is displayed below the text.

Sequence	Task	Matrix	Species	Monitoring Location	Preservative	Analytical Group	Label Quantity	Sample Type	Col Dev	Collection FOP	Collection FOP Rev	Cont Vol
100	FLGEN	WQ	-	MULTI	HNO3	RAD-WATER	1	RIN	GRA	PO-SE-T2309	0	1
101	FLGEN	WQ	-	MULTI	HNO3	TCLP-MET	1	RIN	GRA	PO-SE-T2309	0	1
102	FLGEN	WQ	-	MULTI	CHILL	MANYMETHOD	1	RIN	GRA	PO-SE-T2309	0	1
103	FLGEN	WQ	-	MULTI	HCL	METH/VOC/W	1	RIN	GRA	PO-SE-T2309	0	1
110	FLGEN	SZ	-	MULTI	---	RAD-SOLID	1	REG	CMP	PO-SE-T2309	0	1
111	FLGEN	SZ	-	MULTI	CHILL	TCLP-MET	1	REG	CMP	PO-SE-T2309	0	4
112	FLGEN	SZ	-	MULTI	CHILL	MANYMETHOD	1	REG	CMP	PO-SE-T2309	0	1
113	FLGEN	SZ	-	MULTI	CHILL	TCLPFULLX5	1	REG	CMP	PO-SE-T2309	0	1

After some task reference records have been created, the user may speed data entry by using the duplicate mode to copy information.

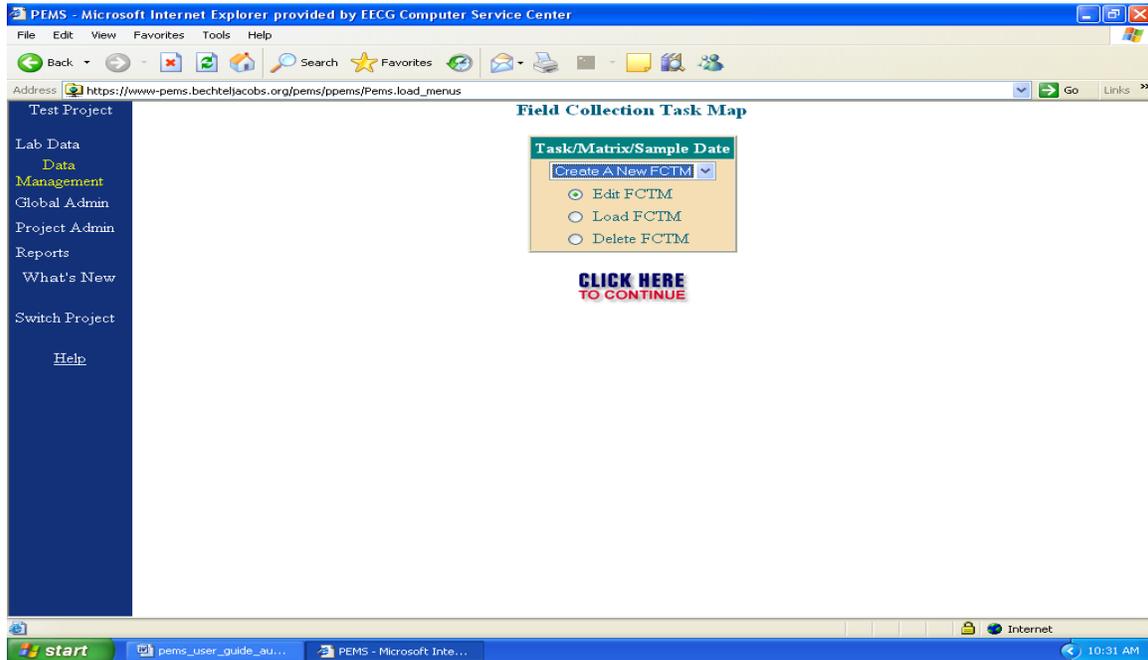
By clicking the *Duplicate Record* button, it will put the application in duplicate mode, which is indicated by an arrow icon next to the button. To copy a record, click on any field of the record to be duplicated. It will display Field Collection Task Reference Detail Screen with all selected fields from the selected record except the Field Sequence. The user must enter a unique numeric value for Field Sequence and can re-select any field as needed. When the user saves information on the Field Collection Task Reference Detail Screen, it returns to the Field Collection Task Reference Main Screen.

Renumbering Field Collection Task Reference Screen

Sequence	Task	Matrix	Species	Monitoring Location	Preservative	Analytical Group	Label Quantity	Sample Type	Col Dev	Collection FOP	Collection FOP Rev	Cont Vol
100	FLGEN	WQ		MULTI	HNO3	RAD-WATER	1	RIN	GRA	PO-SE-T2309	0	1
101	FLGEN	WQ		MULTI	HNO3	TCLP-MET	1	RIN	GRA	PO-SE-T2309	0	1
102	FLGEN	WQ		MULTI	CHILL	MANYMETHOD	1	RIN	GRA	PO-SE-T2309	0	1
103	FLGEN	WQ		MULTI	HCL	METH/VOC/W	1	RIN	GRA	PO-SE-T2309	0	1
110	FLGEN	SZ		MULTI	---	RAD-SOLID	1	REG	CMP	PO-SE-T2309	0	1
111	FLGEN	SZ		MULTI	CHILL	TCLP-MET	1	REG	CMP	PO-SE-T2309	0	4
112	FLGEN	SZ		MULTI	CHILL	MANYMETHOD	1	REG	CMP	PO-SE-T2309	0	1
113	FLGEN	SZ		MULTI	CHILL	TCLPFULLX5	1	REG	CMP	PO-SE-T2309	0	1
114	FLGEN	SZ		MULTI	---	RAD X 5	5	REG	CMP	PO-SE-T2309	0	1
115	FLGEN	SZ		MULTI	---	RAD X 5	5	FR	CMP	PO-SE-T2309	0	1
116	FLGEN	SZ		MULTI	---	PHYSICAL	1	REG	CMP	PO-SE-T2309	0	5

This screen is used to order the Field Sequence, which must be a unique number. By clicking on the *Save* button, it saves the template and returns to the Field Collection Task Reference Main Screen.

Field Collection Task Map Main Screen



The Field Collection Task Map uses the template information set up in the Task Reference to create a more detailed sample plan.

This screen allows the user to create new task map, edit an existing task map that has not been loaded, load the task map to generate sample records, and delete task maps if not needed. The radio buttons direct what action should be taken to the selection displayed in the pick list. By clicking the Continue icon, it activates the action.

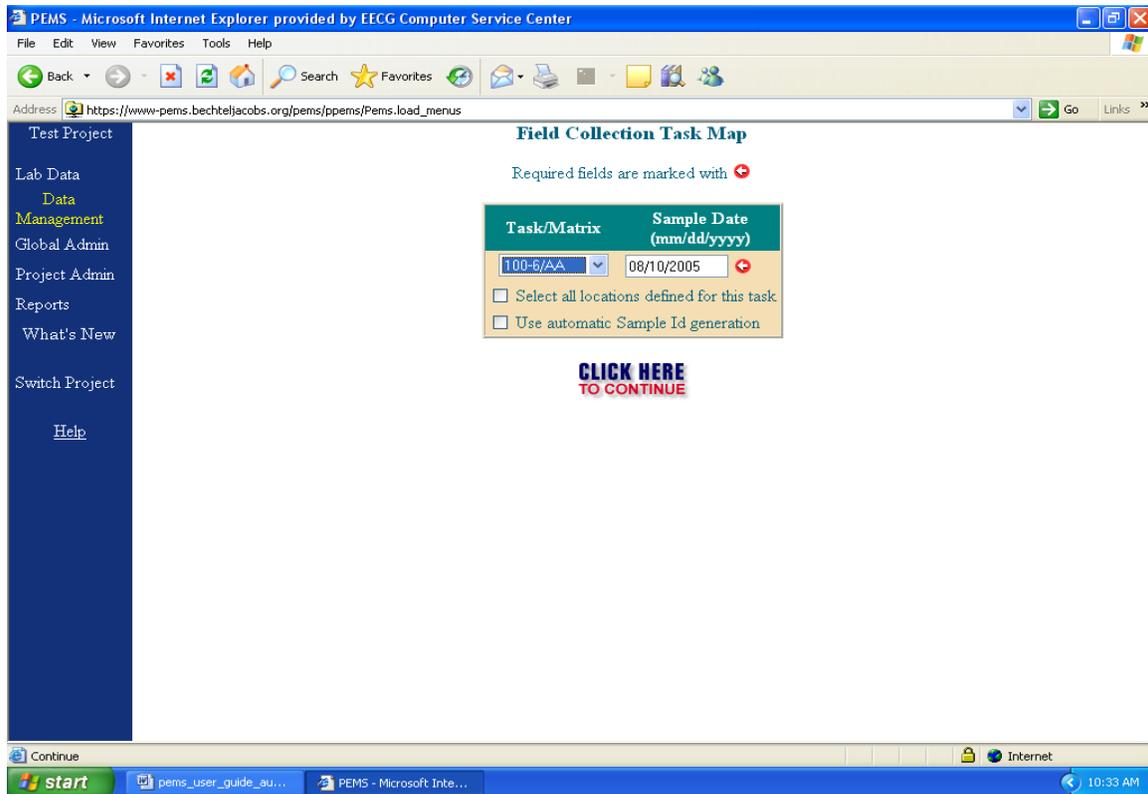
To create a task map, select 'Create A New FCTM' from the pick list, select the *Edit FCTM* radio button, and click the Continue icon. It displays the Field Collection Task Map Query Screen.

To edit a task map, select a Task/Matrix/Sample Date from the pick list, select *Edit FCTM* radio button, and click the Continue icon. It displays the Field Collection Task Map Data Entry Screen.

To load a task map, select a Task/Matrix/Sample Date from the pick list, select *Load FCTM* radio button, and click the Continue icon. The PEMS system will validate the information set up in Field Collection Task Map before it can be successfully loaded in sample collection.

To delete a task map, select a Task/Matrix/Sample Date from the pick list, select *Delete FCTM* radio button, and click the Continue icon. A pop-up window with a question 'Are you sure that you want to delete this FCTM ?' confirms the deletion.

Field Collection Task Map Query Screen



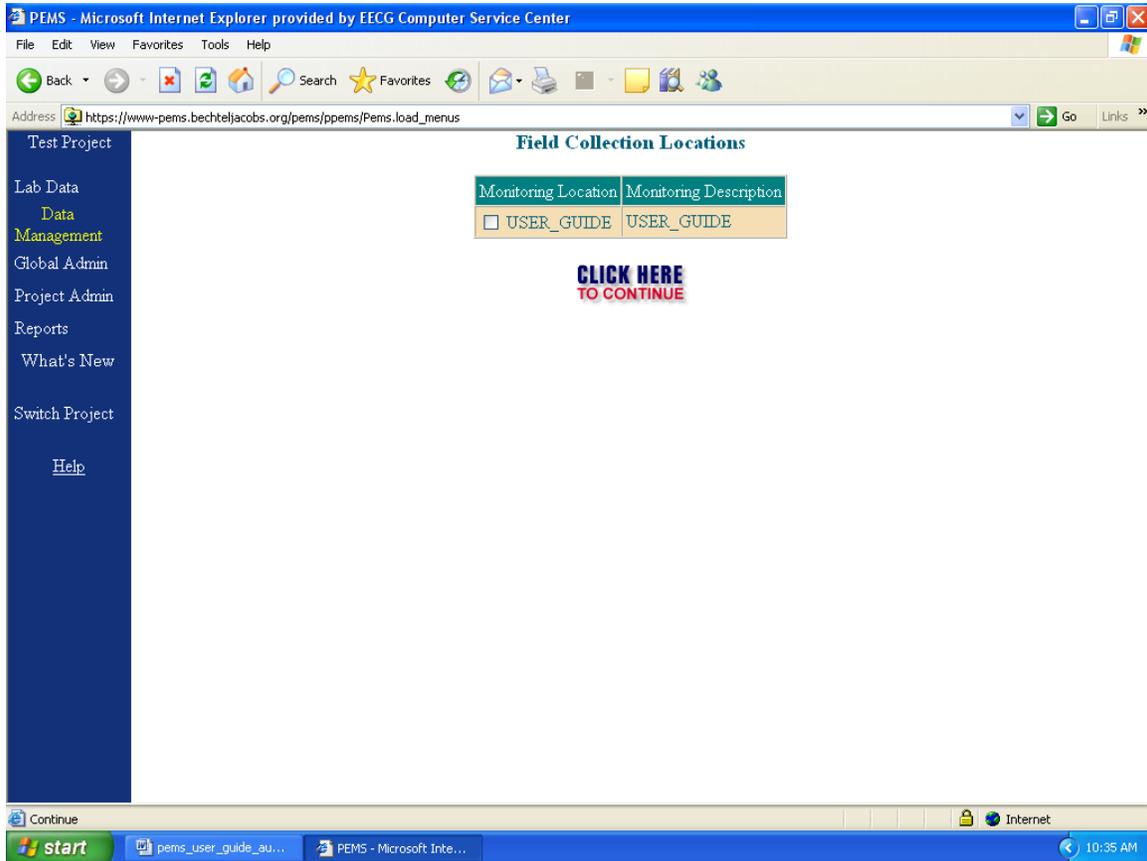
This screen displays a pick list of Task/Matrix set up in the Task Reference template, an input field for a Sample Date and 2 optional checkboxes. The Sample Date can only be within 730 days past the current system date and 365 future days from the current system date.

The *Select all locations defined for this task* option allows the system to look at the locations defined for the task/matrix combination in the task reference template and use that information to create task map records for all monitoring locations. It displays Field Collection Task Map Data Entry Screen with all defined locations available for sample entry. Without this option being checked, it displays the Field Collection Location Screen for the user to make monitoring location selection.

The *Use automatic Sample Id generation* option is used to speed data entry by having the system generate the Sample Id prefix with 'SMPL' and a unique number on the Field Collection Task Map Data Entry Screen. This option is typically used for high-volume sample plans where the value used for the sample id has no formatting specifications.

By clicking the Continue icon, it either displays the Field Collection Location Screen or the Field Collection Task Map Data Entry Screen depending on the checkbox option for *Select all locations defined for this task*.

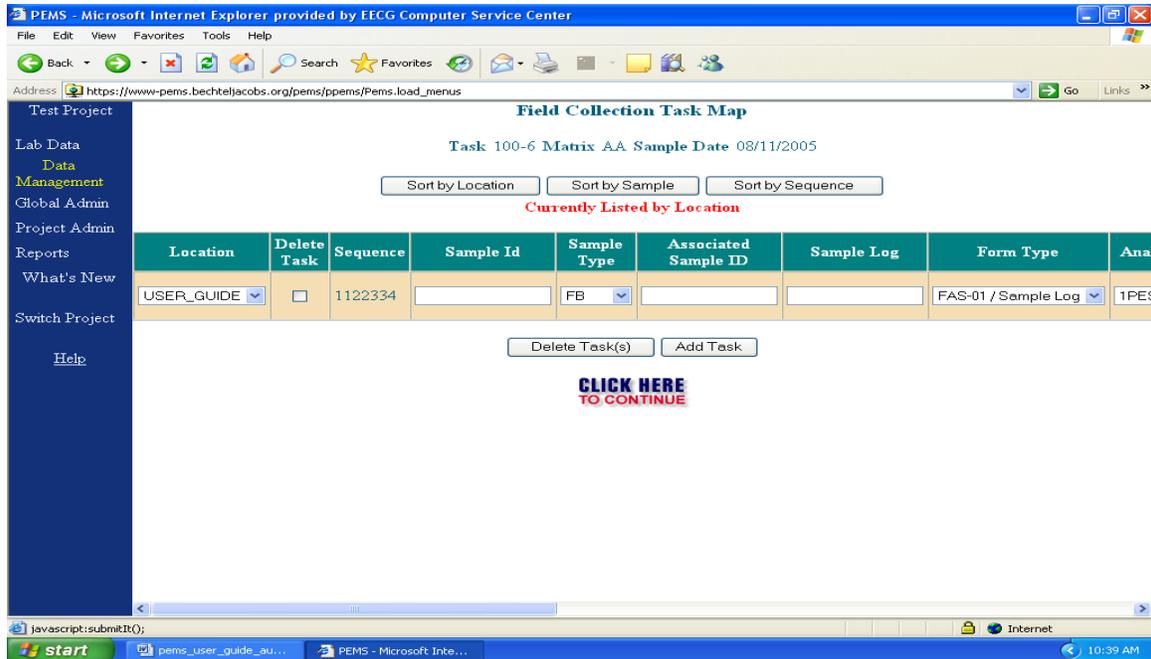
Field Collection Locations



This screen allows the user to select the monitoring location(s) to be loaded from Task Reference template into Task Map.

By clicking the Continue icon, it creates task map records and displays Field Collection Task Map Data Entry Screen for sample entry.

Field Collection Task Map Data Entry Screen



N.B. Depending upon resolution of the user's PC, portions of this screen may not be visible. Use the scroll bar at the bottom of the screen to see all of the data.

This screen allows user to modify any sampling information before creating new samples. The 3 sorting buttons are used to sort the display in ascending order and they are self-explanatory.

The Sample ID field should contain the identifier of the container that will hold the collected sample. It is a 15-character, case-sensitive field that can be any alphanumeric character, as well as the following special characters: #, /, - and .(period). Every record on the task map must have a sample id before it can be copied from the task map into the Sample. Since the task map is essentially a “what-if” document, the same sample id may be used on multiple task maps, but not inside the same task map. When task maps are loaded, however, data validation is performed to determine if the new sample id(s) have already been used for the project. If so, the load is aborted and an error message is displayed.

The Associate Sample Id must be entered if the selected sample type is Field Replicate (FR). It follows the same data entry validation rules as regular Sample Id as shown above.

The Sample Log# is an identifier to group all related samples for planned sampling. It follows the sample data validation as Sample Id as shown above.

The Form Type field is a pick list that contains the document types supported by the PEMS system.

The Label Quantity field must have numeric values and the value must be at least 1.

The user can eliminate the displayed task information by selecting the checkbox(es) at Delete Task column and click *Delete Task(s)* button.

By clicking the *Add Task* button, it displays the Add Task Screen for user to enter another sampling task information.

By clicking the Continue icon, it saves the information and displays Field Collection Task Map Data Entry Screen with a message on number of records being saved and 2 more action buttons.

The *Ready to Load Data for this FCTM* button allows the user to load the Task Map records into Sample records if they pass the validation check.

The *Return to FCTM Main Screen* allows the user to go back to the main screen and make more selection.

The screenshot shows a web browser window displaying the 'Field Collection Task Map' interface. The browser title is 'PEMS - Microsoft Internet Explorer provided by EECG Computer Service Center'. The address bar shows 'https://www.pems.bechteljacobs.org/pems/ppems/Pems.load_menus'. The page content includes a navigation menu on the left with options like 'Test Project', 'Lab Data', 'Data Management', 'Global Admin', 'Project Admin', 'Reports', 'What's New', 'Switch Project', and 'Help'. The main content area displays '1 Records Saved' and 'Task 100-6 Matrix AA Sample Date 08/17/2005'. Below this are buttons for 'Ready to Load Data for this FCTM' and 'Return to FCTM Main Screen'. There are also sorting options: 'Sort by Location', 'Sort by Sample', and 'Sort by Sequence'. The text 'Currently Listed by Location' is displayed above a table. The table has columns: Location, Delete Task, Sequence, Sample Id, Sample Type, Associated Sample ID, Sample Log, Form Type, and Ana. The first row shows 'USER_GUIDE' in the Location column, an unchecked checkbox in the Delete Task column, '1122334' in the Sequence column, 'SMPL101' in the Sample Id column, 'REG' in the Sample Type column, an empty Associated Sample ID field, an empty Sample Log field, 'FAS-01 / Sample Log' in the Form Type column, and '1PE' in the Ana column. Below the table are buttons for 'Delete Task(s)' and 'Add Task'.

Location	Delete Task	Sequence	Sample Id	Sample Type	Associated Sample ID	Sample Log	Form Type	Ana
USER_GUIDE	<input type="checkbox"/>	1122334	SMPL101	REG			FAS-01 / Sample Log	1PE

N.B. Depending upon resolution of the user's PC, portions of this screen may not be visible. Use the scroll bar at the bottom of the screen to see all of the data.

Field Collection Task Map – Add Task Screen

PEMS - Microsoft Internet Explorer provided by EECG Computer Service Center

File Edit View Favorites Tools Help

Address https://www-pems.bchteljacobs.org/pems/ppems/Pems.load_menu Go Links

Field Collection Task Map

Test Project

Lab Data

Data

Management

Global Admin

Project Admin

Reports

What's New

Switch Project

Help

Project Task Code:	100-6
Project Location:	USER_GUIDE
Matrix:	AA-Ambient Air
Collection Device:	20-2020 Photoionization air monitor-PID
Collection FOP/Revision:	-/Rev.0 (No sampling procedure)
Container Volume:	
Container Unit:	<input type="text"/> Search
Container Type:	
Collection Method:	
Averaging Period:	
Preservative:	- (NO PRESERVATIVE REQUIRED)
Analytical Group:	1PEST (Pesticides)
Label Quantity:	1
Sample Type:	FB (Field Blank)

Save Task

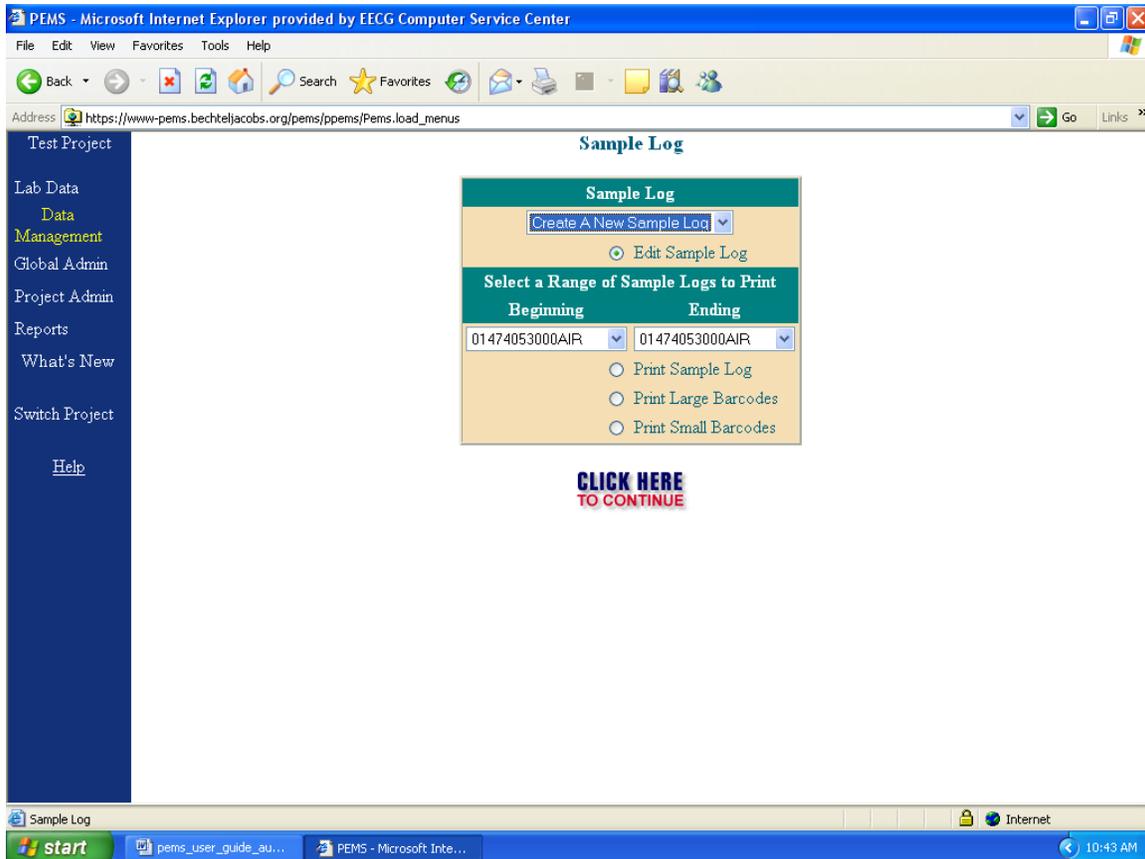
Done

start pems_user_guide_au... PEMS - Microsoft Inte... 10:43 AM

This screen allows the user to add additional task. It follows the same rules as in the Field Collection Task Map Data Entry Screen.

By clicking the Continue icon, it saves the information and displays the saved information upon returning to the Field Collection Task Map Data Entry Screen.

Sample Log Main Screen



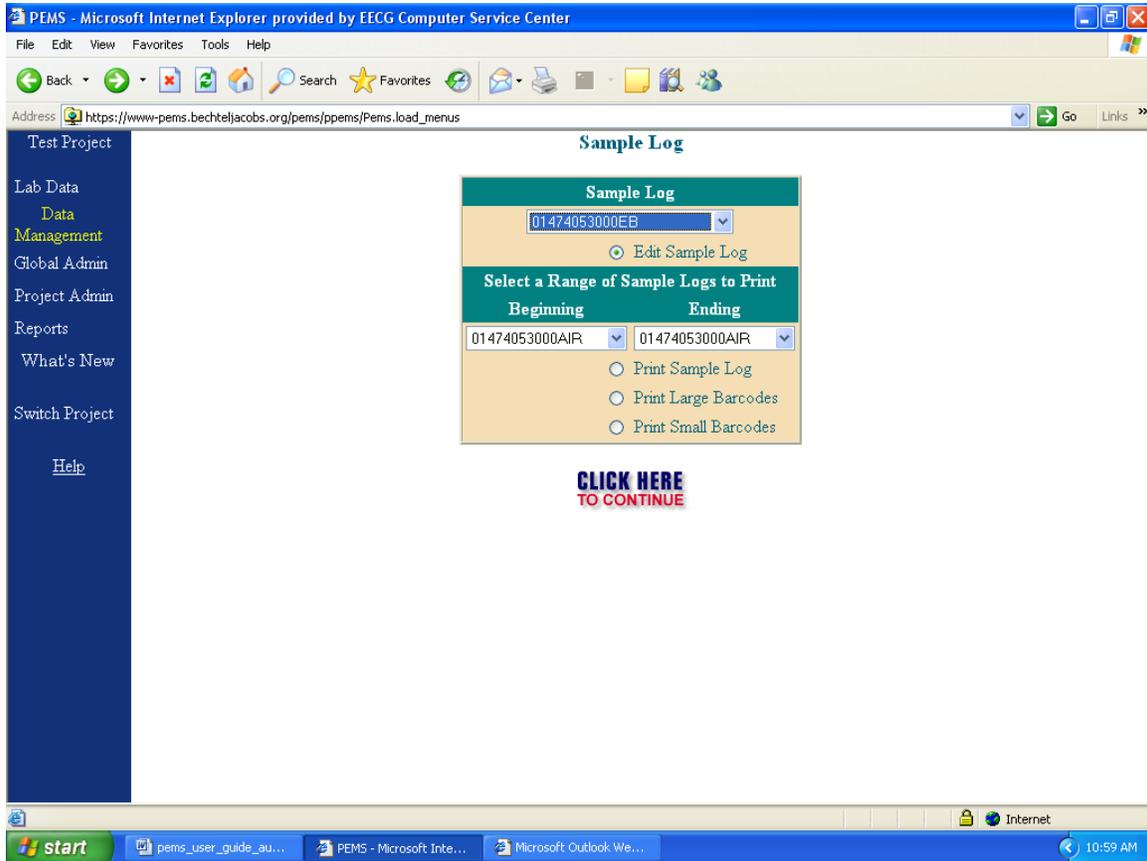
The Sample Log provides a worksheet for sample collection on a planned date. The Sample Log main screen is divided into editing or printing sections.

The editing section allows the user to create a new Sample Log or edit an existing Sample Log. The printing section allows the user to print one or a range of Sample Logs by entering the beginning and ending Sample Log number for detail Sample Log, Large Barcode or Small Barcode.

By clicking the Continue icon, it activates the action depending on the selected option.

Sample Log Main Screen

(Create or Edit Sample Log)



To create a new Sample Log, select Create A New Sample Log. To edit an existing Sample Log, select a Sample Log number from the pick list. By selecting the Edit Sample Log radio button and clicking the Continue icon, it displays the Edit Sample Log Header Information Screen.

Edit Sample Log Header Information Screen

PEMS - Microsoft Internet Explorer provided by EECG Computer Service Center

File Edit View Favorites Tools Help

Address https://www-pems.bechteljacobs.org/pems/ppems/Pems.load_menus Go Links »

Edit Sample Log

Required fields are marked with *

Sample Log:	01474053000EB *	Rename Sample Log
Logbook No.:	<input type="text"/>	
Planned Date(mm/dd/yyyy):	09/30/2005 *	
Team Leader:	626015(Stout, Richard)	

**CLICK HERE
TO CONTINUE**

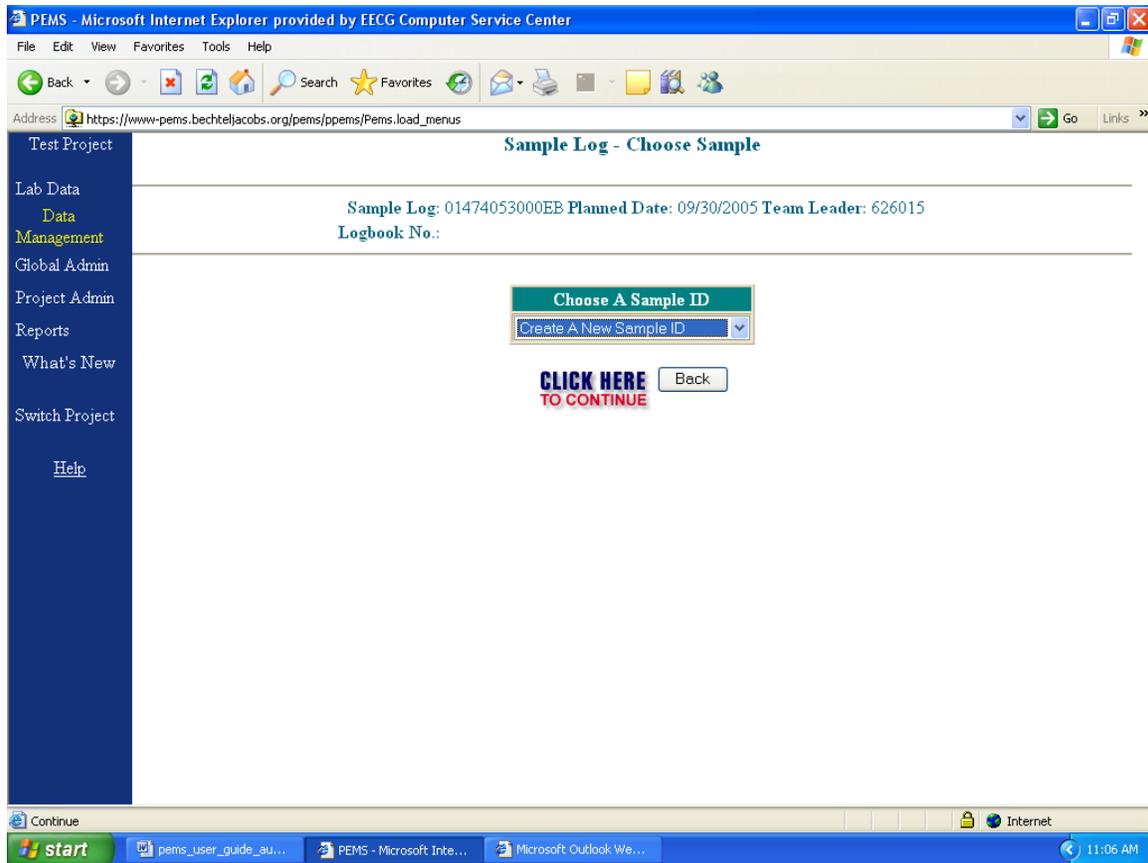
Continue

start pems_user_guide_au... PEMS - Microsoft Inte... Microsoft Outlook We... 11:05 AM

This screen allows the user to enter the header information to describe the new or selected Sample Log. In the “create new” Sample Log case, the Sample Log Number is an input field for the user to enter.

By clicking the Continue icon, it displays the Sample Log – Choose Sample screen.

Sample Log – Choose Sample Screen



This screen allows the user to select sample(s) to be included in Sample Log. The pick list contains *Create A New Sample Id*, *Add Samples Using Task Map* and a list of available Sample Ids.

By selecting *Create A New Sample Id* and clicking the Continue icon, it displays the Sample Log – Edit Sample Screen for the user to enter new sample information.

By selecting *Add Samples Using Task Map* and clicking the Continue icon, it displays the Choose A Task/Matrix/Date Screen for the user to populate sample information from the selected task map.

By selecting a Sample Id and clicking the Continue icon, it displays the Sample Log – Edit Sample Screen for the user to update any information for the selected sample.

Sample Log – Edit Sample Screen (Part I)

This screen allows the user to enter new or update existing sample information.

In the “Create A New Sample ID” case, the Sample Id must be at most 15 alphanumeric characters including special characters like #, /, -, and . (Period).

For most fields, pick lists provide list of available values for the user to select.

The *Search* button at the Container Volume field provides a pop-up window with a list of a Container’s volume, unit and type for the user to select. By clicking the *OK* button, it closes the pop-up window and populates the selected value into Container’s volume, unit and type on the main window.

Sample Log – Edit Sample Screen (Part II)

The *Search* button on the Assoc. Sample ID field provides a list of samples for the user to select.

The Top and Bottom Depth fields must have numeric values.

The Comments field is optional.

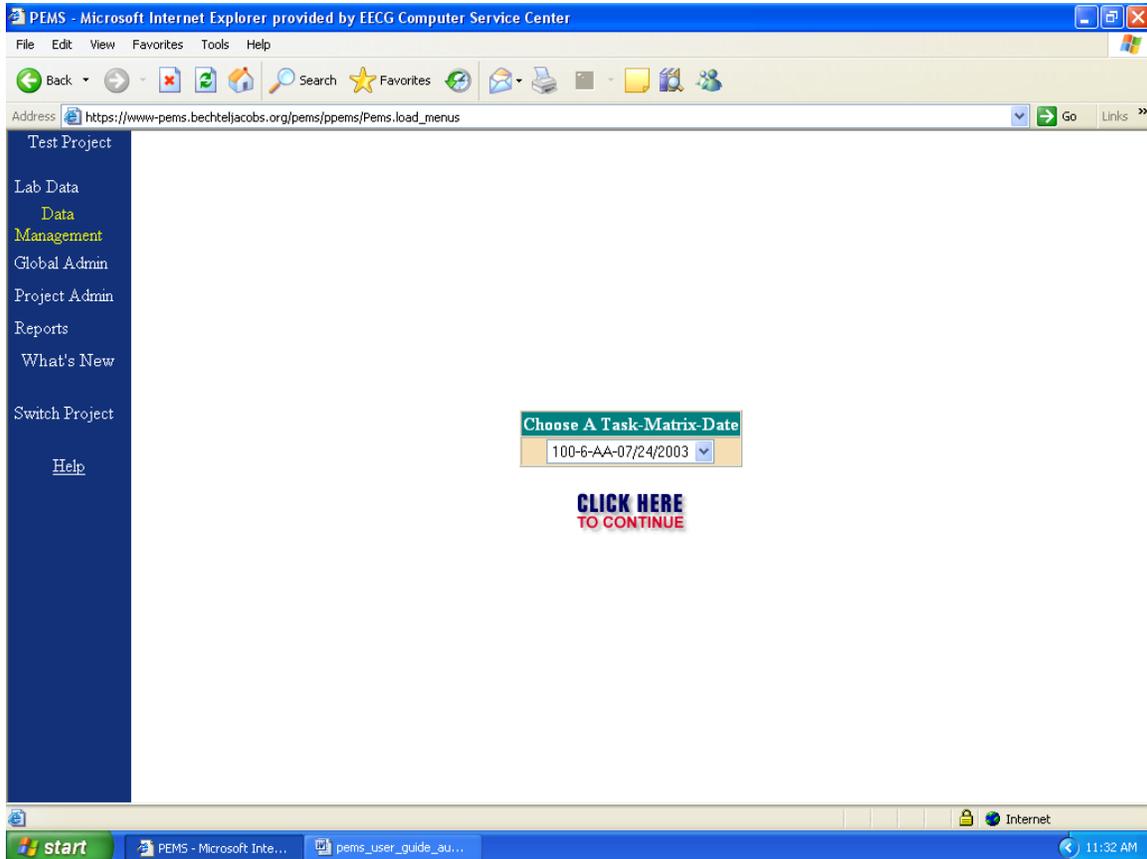
By clicking the *Save Data* button, it saves the sample information and returns to the Sample Log - Choose Sample screen.

By clicking the *Save Data and Add Another Sample* button, it saves the sample information and displays the Sample Log – Edit Sample screen for new sample entry.

By clicking the *Back* button, it doesn't activate the save action and returns to the Sample Log - Choose Sample screen.

Choose A Task/Matrix/Date Screen

(Add Samples Using Task Map)



This screen displays a list of Task-Matrix-Date combinations from available task maps. By clicking the Continue icon, it displays the *Choosing Task Reference Samples Screen*.

Choosing Task Reference Samples

(Add Samples Using Task Map)

PEMS - Microsoft Internet Explorer provided by EECG Computer Service Center

Address: https://www-pems.bchteljacobs.org/pems/ppems/Pems.load_menus

Choosing Task Reference Samples

Task: 100-6 Matrix: AA Date: 07/24/2003

<input checked="" type="checkbox"/> Use this record	Monitoring Location:	USER_GUIDE	Sample Type:	REG
	Site:	K-25	Preservative:	---
	Collection Device:	2020 Photoionization air mont	Process:	
	Analysis Group:	1PEST	Averaging Period:	
	Collection Method:			
	Container Volume/UnitType:	//		
	Label Quantity:	1		
<input checked="" type="checkbox"/> Use this record	Monitoring Location:	USER_GUIDE	Sample Type:	SPLIT
	Site:	K-25	Preservative:	---
	Collection Device:	2020 Photoionization air mont	Process:	
	Analysis Group:	1PEST	Averaging Period:	
	Collection Method:			
	Container Volume/UnitType:	//		
	Label Quantity:	1		
<input checked="" type="checkbox"/> Use this record	Monitoring Location:	USER_GUIDE	Sample Type:	SPLIT
	Site:	K-25	Preservative:	---
	Collection Device:	2020 Photoionization air mont	Process:	
	Analysis Group:	1PEST	Averaging Period:	
	Collection Method:			
	Container Volume/UnitType:	//		
	Label Quantity:	1		

Continue

This screen displays all records for the selected Task/Matrix/Date records with checkboxes. By default, all displayed records are pre-selected. Clicking the checked checkbox will de-select the record from the insertion process.

By clicking the Continue icon (not shown), it displays 'Adding Samples By Task Reference'.

Adding Samples By Task Reference

(Add Samples Using Task Map)

PEMS - Microsoft Internet Explorer provided by EECG Computer Service Center

Address: https://www-pems.bechteljacobs.org/pems/ppems/Pems.load_menus

Adding Samples By Task Reference

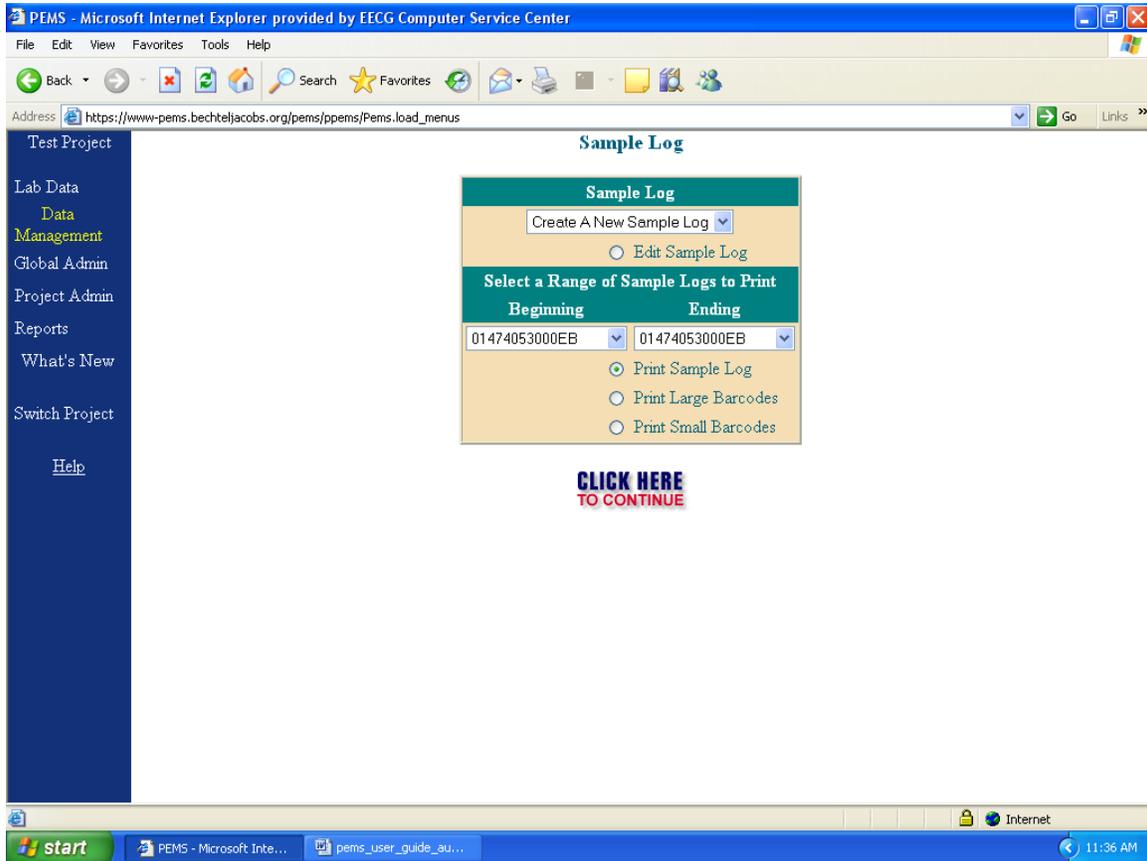
Sample ID: <input type="text"/>	Monitoring Location:	USER_GUIDE	Sample Type:	REG
	Site:	K-25	Preservative:	---
	Collection Device:	2020 Photoionization air monit		
	Analysis Group:	1PEST (Pesticides)		
	Collection Method:		Averaging Period:	
	Container Volume/Unit Type:	//		
	Label Quantity:	1		

CLICK HERE TO CONTINUE

This screen allows the user to enter the sample id(s) for the record(s) that had been selected. The entered sample id will be converted to uppercase text by the insertion process. The user may need to edit the inserted samples on the *Sample Log - Edit Sample* screen to add additional information such as sample depth, comments or associated sample ids.

By clicking the Continue icon, it creates new sample(s) to be included in the Sample Log and returns to the Sample Log Main Screen.

Print Sample Log Information



The Print Sample Log allows the user to select one or a range of Sample Logs to print detail sample information.

By clicking the Continue icon, it displays the Sample Log Printout.

Sample Log Printout

The screenshot shows a Microsoft Word document titled "print_sample_log.doc (Read-Only)". The document content is as follows:

Project Environmental Measurement System (PEMS)
Sample Log

Page: 1 for 01474053000EB
Date: 08/10/2005 11:37 AM

Project:	USER_GUID	Sample Log:	0147405300	Planned Date:	30-SEP-05
Logbook:	E	Team Leader:	626015 (Stout, Richard)		

Sample ID Snpl Type	Mount Loc/ Tsk. Code/ Bld Matrix	Sampling Proc/Rev	Snpl Container Vol/Type/Qty	Clean Lot No/ Assoc Snpl ID	Sample Date Time/Status	Depth Top/Bot/Unit	Equipment ID/ Sampling Dev Collect Method Average Period	Presv/Desc Process	Sample Comments/ Parameter Analysis Group
PC017403E -01	USER_GUID 01-2 WG	PO-RE-11309 0	1 L AGLS1 ea		01/01/2000 01:45/ML	/	GHA	HEM/CAC HEM TO PH -2.0, 4 DEGREE C.	Total Petroleum Hydrocarbon
PC017403E -02	USER_GUID 01-2 WG	PO-RE-11309 0	1 L AGLS1 ea		01/01/2000 01:45/ML	/	GHA	HEM/CAC HEM TO PH -2.0, 4 DEGREE C.	Oil and Grease
PC017403E -03	USER_GUID 01-2 WG	PO-RE-11309 0	300 ML AGLS3 ea		01/01/2000 01:45/ML	/	GHA	HEM NITRIC ACID TO PH<10.	Metals and Mercury
PC017403E -04	USER_GUID 01-2 WG	PO-RE-11309 0	1 L AGLS1 ea		01/01/2000 01:45/ML	/	GHA	TC A DEGREE CELSIUS	Particulates
PC017403E -05	USER_GUID 01-2 WG	PO-RE-11309 0	300 ML AGLS3 ea		01/01/2000 01:45/ML	/	GHA	TC A DEGREE CELSIUS	Herbicides
PC017403E -06	USER_GUID 01-2 WG	PO-RE-11309 0	1 L AGLS1 ea		01/01/2000 01:45/ML	/	GHA	TC A DEGREE CELSIUS	PCB FOR INFO ONLY Polychlorinated Biphenyls
PC017403E -07	USER_GUID 01-2 WG	PO-RE-11309 0	40 ML AGLS3 ea		01/01/2000 01:45/ML	/	GHA	HEM/CAC HEM TO PH -2.0, 4 DEGREE C. ZERO HEADSPACE	Volatile Organics (2 excludes)
PC017403E -08	USER_GUID 01-2 WG	PO-RE-11309 0	1 L AGLS1 ea		01/01/2000 01:45/ML	/	GHA	TC A DEGREE CELSIUS	Semi-volatile Organics

Page 1 Sec 1 1/2 At 2.3" Ln 1 Col 1 [REC] [TRK] [EXT] [OVR]

Done Internet 11:37 AM

The Sample Log Printout is in Microsoft Word Rich Text Format (rtf).

Print Large Barcodes



The *Print Large Barcodes* allows the user to select one or a range of Sample Logs to print barcode information on 3 inch by 4 inch labels.

By clicking the Continue icon, it displays a query screen for the user to choose Sample Id(s) and a starting label position.

Print Large Barcodes

The screenshot shows a web browser window titled "PEMS - Microsoft Internet Explorer provided by EECG Computer Service Center". The address bar shows the URL: https://www-pems.becteljacobs.org/pems/ppems/Pems.load_menus. The page content includes a navigation menu on the left and a main area with a table and a red instruction.

Choose the sample numbers to print and then select a starting label position

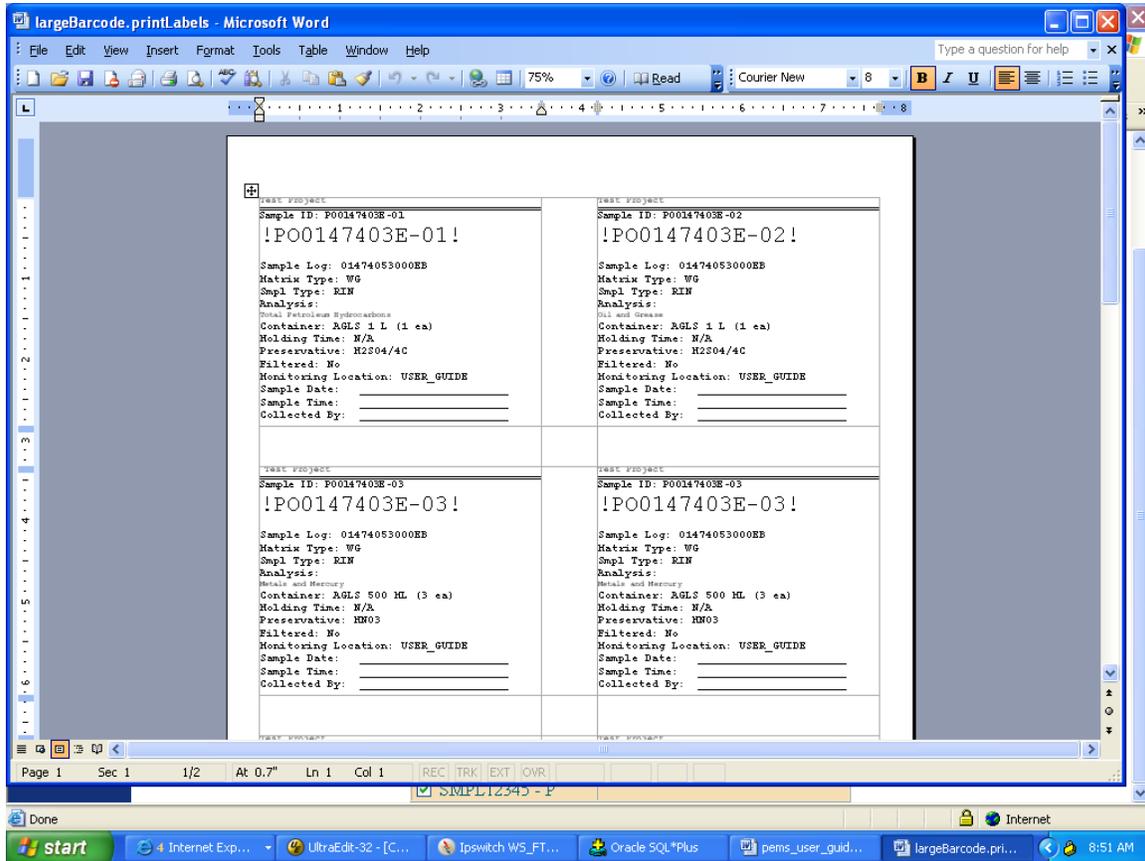
Samples to Print	Starting Label Position
<input checked="" type="checkbox"/> PO0147403E-01 - SL	
<input checked="" type="checkbox"/> PO0147403E-02 - SL	
<input checked="" type="checkbox"/> PO0147403E-03 - SL	
<input type="checkbox"/> PO0147403E-04 - SL	
<input type="checkbox"/> PO0147403E-05 - SL	
<input type="checkbox"/> PO0147403E-06 - SL	
<input type="checkbox"/> PO0147403E-07 - SL	
<input type="checkbox"/> PO0147403E-08 - SL	
<input type="checkbox"/> PO0147403E-09 - SL	
<input type="checkbox"/> PO0147403E-10 - SL	
<input type="checkbox"/> PO0147403E-11 - SL	
<input type="checkbox"/> PO0147403E-12 - SL	
<input type="checkbox"/> PO0147403E-13 - SL	
<input type="checkbox"/> PO0147403E-14 - SL	

The table shows a grid of 14 rows. The first three rows have checkboxes checked. The last three rows (07-09) have blue boxes in the 'Starting Label Position' column, indicating where labels will be printed. The rest of the rows are empty.

This screen allows the user to select the desired Sample IDs and the beginning print position. The diagram shows the number and position of labels that will fit on an 8 ½ x 11 page of label stock. With the appropriate label stock and the barcode fonts installed, labels can be printed using a standard laser printer.

The barcode program uses the individual Sample's label quantity to determine the number of labels that should be printed for the sample.

Sample of LARGE Barcode Labels



Print Small Barcodes



The *Print Small Barcodes* allows the user to select one or a range of Sample Logs to print barcode information on 1 inch by 2 inch labels.

By clicking the Continue icon, it displays a query screen for the user to choose Sample Id(s) and a starting label position.

Print Small Barcodes

The screenshot shows a web browser window titled "PEMS - Microsoft Internet Explorer provided by EECG Computer Service Center". The address bar displays "https://www-pems.becteljacobs.org/pems/ppems/Pems.load_menus". The page content includes a navigation menu on the left and a main area with a red instruction: "Choose the sample numbers to print and then select a starting label position".

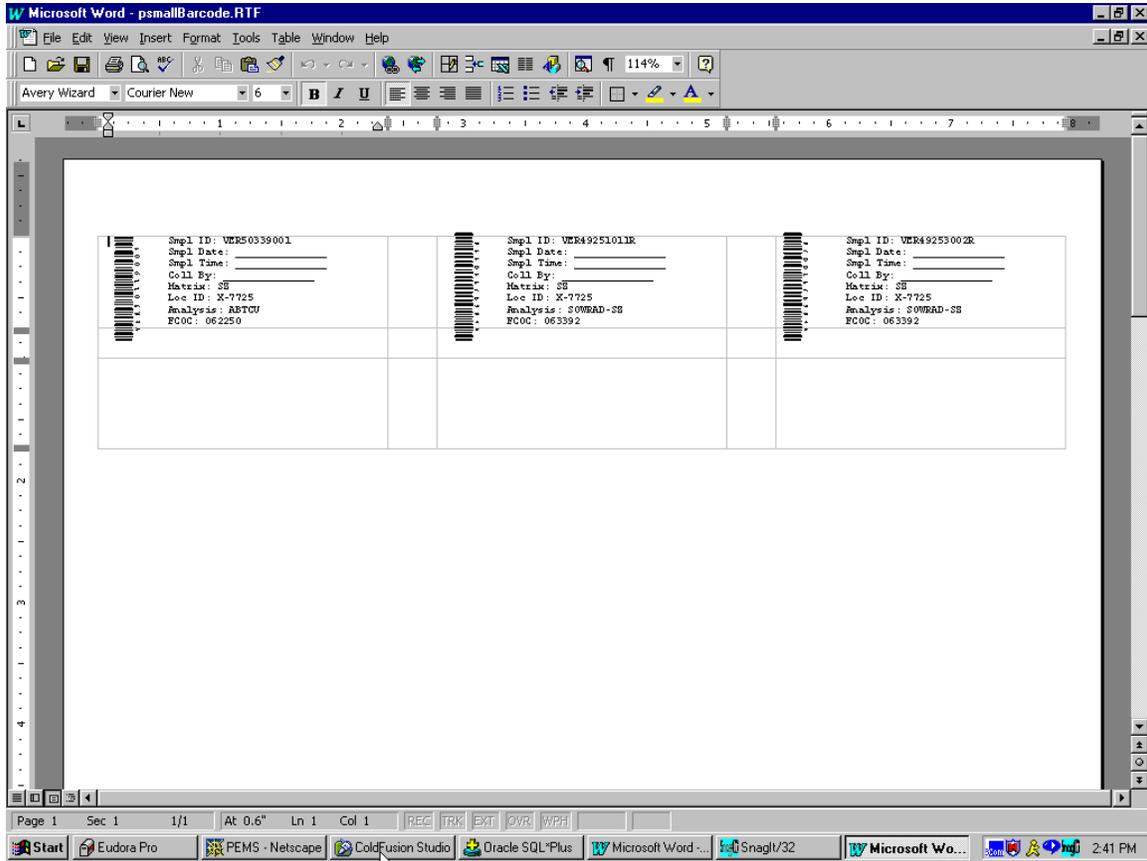
Samples to Print	Starting Label Position
<input checked="" type="checkbox"/> PO0147403E-01 - SL	
<input checked="" type="checkbox"/> PO0147403E-02 - SL	
<input checked="" type="checkbox"/> PO0147403E-03 - SL	
<input type="checkbox"/> PO0147403E-04 - SL	
<input type="checkbox"/> PO0147403E-05 - SL	
<input type="checkbox"/> PO0147403E-06 - SL	<input type="checkbox"/>
<input type="checkbox"/> PO0147403E-07 - SL	<input type="checkbox"/>
<input type="checkbox"/> PO0147403E-08 - SL	<input type="checkbox"/>
<input type="checkbox"/> PO0147403E-09 - SL	<input type="checkbox"/>
<input type="checkbox"/> PO0147403E-10 - SL	<input type="checkbox"/>
<input type="checkbox"/> PO0147403E-11 - SL	<input type="checkbox"/>
<input type="checkbox"/> PO0147403E-12 - SL	<input type="checkbox"/>
<input type="checkbox"/> PO0147403E-13 - SL	<input type="checkbox"/>
<input type="checkbox"/> PO0147403E-14 - SL	<input type="checkbox"/>

The "Starting Label Position" column contains a grid of 14 blue boxes, representing the positions for printing labels for each sample. The first three samples have their checkboxes selected, and the first three boxes in the grid are also selected.

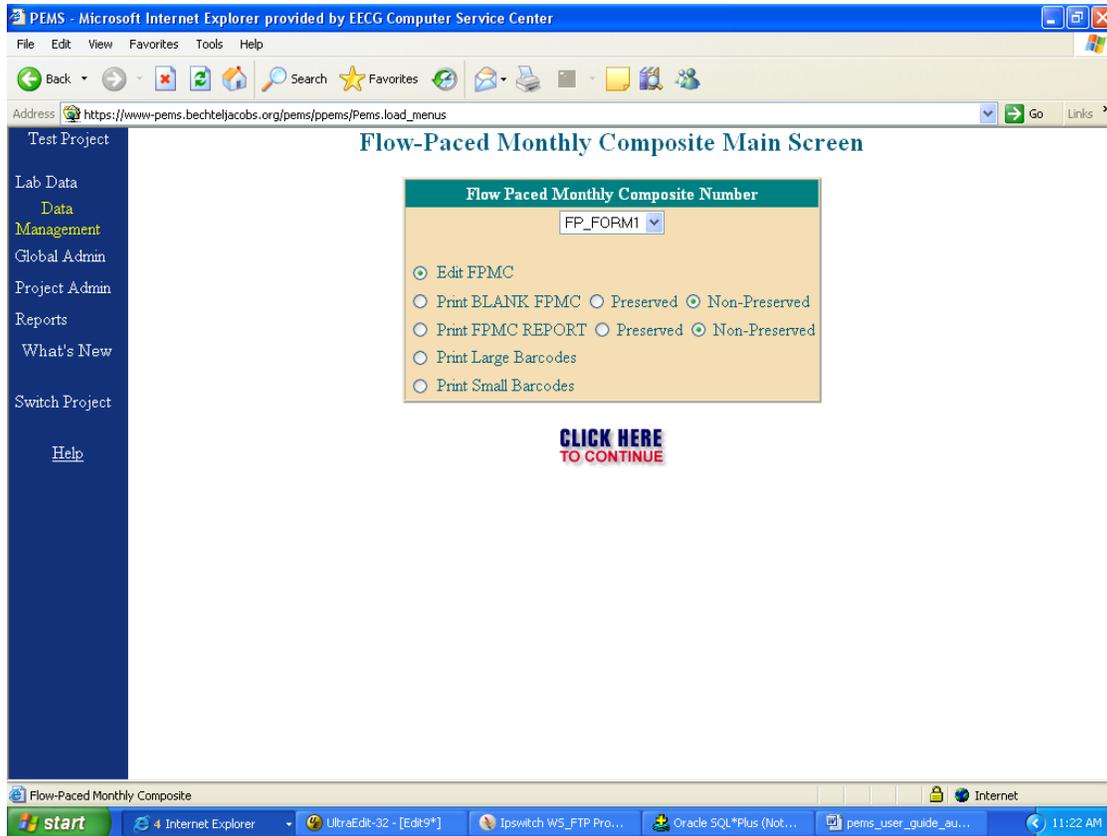
This screen allows the user to select the desired Sample IDs and the beginning print position. The diagram shows the number and position of labels that will fit on an 8 ½ x 11 page of label stock. With the appropriate label stock and the barcode fonts installed, labels can be printed using a standard laser printer.

The barcode program uses the individual Sample's label quantity to determine the number of labels that should be printed for the sample.

Sample of SMALL Barcode Labels



Flow-Paced Monthly Composite Main Screen



When the Field Task Map was created, the user had the option to specify either a ‘FAS-01 / Sample Log’ or ‘SW-08 / Composite’ form type. Usually, a Sample Log form type will be specified, but FPMC operations are another possible sample plan. By selecting the ‘SW-08 / Composite’ form type, the samples entered in Task Map are identified when the composite sample is split.

By printing a blank FPMC worksheet, it is used for selected samples that will become one composite sample. After sample(s) have been collected, they will be entered at the Preserved / Non-Preserved Sample Compositing Main Screen.

The above Flow-Paced Monthly Composite Main Screen allows the user to edit and print composite sample information for a selected FPMC number. It consists of editing and print sections.

By clicking the Continue icon after selecting the FPMC number, Print BLANK FPMC button and Preserved / Non-Preserved button, it displays the Sample Log Sample Query Screen.

Sample Log Sample Query Screen

Pick Samples	Sample ID	Sample Log	Plan Date
<input checked="" type="checkbox"/>	0029630021-03	1512A071000SO	11-JUL-00
<input checked="" type="checkbox"/>	0029630021-17	1512A071000SO	11-JUL-00
<input type="checkbox"/>	004123001R-01	1504B072000GB	21-JUL-00
<input type="checkbox"/>	0069090011-13	05202C061002PHY	10-JUN-02
<input type="checkbox"/>	0091870011-01	05191A022502REG	25-FEB-02
<input type="checkbox"/>	0091870011-02	05191A022502REG	25-FEB-02
<input type="checkbox"/>	0091870011-03	05191A022502REG	25-FEB-02
<input type="checkbox"/>	0091870011-04	05191A022502REG	25-FEB-02
<input type="checkbox"/>	0091870011-05	05191A022502REG	25-FEB-02
<input type="checkbox"/>	0091870011-06	05191A022502REG	25-FEB-02
<input type="checkbox"/>	0091870011-07	05191B022502REG	25-FEB-02
<input type="checkbox"/>	010026014R-01	05196A070802CHE	09-JUL-02
<input type="checkbox"/>	010026014R-02	05196A070802CHE	09-JUL-02
<input type="checkbox"/>	010026014R-03	05196A070802CHE	09-JUL-02
<input type="checkbox"/>	010026014R-04	05196B070802RAD	09-JUL-02
<input type="checkbox"/>	010026014R-05	05196C080802PHY	09-JUL-02
<input type="checkbox"/>	010026035R-01	05196A070802CHE	09-JUL-02
<input type="checkbox"/>	010026035R-02	05196A070802CHE	09-JUL-02
<input type="checkbox"/>	010026035R-03	05196A070802CHE	09-JUL-02
<input type="checkbox"/>	010026035R-04	05196B070802RAD	09-JUL-02
<input type="checkbox"/>	010026048R-01	05196A070802CHE	09-JUL-02
<input type="checkbox"/>	010026048R-02	05196A070802CHE	09-JUL-02
<input type="checkbox"/>	010026048R-03	05196A070802CHE	09-JUL-02

This screen allows the user to select desired sample(s) for composite sampling.

By clicking the Continue icon (not shown), it generates the FPMC Blank Report in Microsoft Word Rich Text Format (rtf).

Sample of FPMC BLANK

Project Environmental Measurement System (PEMS)
Flow-Paced Monthly Composite Form
Non-Preserved Sample Compositing for July ,2000

Page: 1 of 1
Date: 08/15/2005 11:27 AM

Project: USER_GUIDE
Task: 100-6
Monitoring Loc: USER_GUIDE
FPMC No.: FP_FORM1

Compositor: _____ FOP Number / Revision: BCVOU1-3030-8/0 Date: _____
Field Logbook: _____ Weather: _____ Time: _____

(A) Total Monthly Composite Volume of Non-Preserved Samples (ml): 2,500

Weekly Retrieval Number	Sample Log	Planned Date	Date Collected	Sample ID	(B) Total Flow Volume Since Last Retrieval (gal)	(C) Percent of Total Flow Volume (B/D)*100	Aliquot Amount (ml) A*C/100
2	1512A071000SO	07/11/2000		0029630021-03			
2	1512A071000SO	07/11/2000		0029630021-17			

(D) Total Flow Volume for Month (gal): 0
Comments:
Composite Sample ID:

Surface Water Split Sample Compositing

Sample ID	Sample Time	Associated Sample ID	Sample Type	Sample Status	Container Volume	Container Type	Parameter Analysis Group	Sample Device	Cleaning Lot
FFSMPL1			REG	P	3 L	AGLS	1PEST	20	

Page 1 Sec 1 1/1 At 1.5" Ln 1 Col 1 REC TRK EXT OVR

This worksheet is used for selected samples that will become one composite sample. The selected samples are printed right after the blank header information, which will be entered using Edit FPMC function after sampling collection. All samples that are already set up for the FPMC number using Task Map module are printed on the bottom part of the worksheet.

After sample(s) have been collected, they will be entered starting at the Flow-Paced Monthly Composite Header Info Screen. To get into this screen, the user has to select the FPMC number, Edit FPMC button and click the Continue icon on the Flow-Paced Monthly Composite Main Screen.

Flow-Paced Monthly Composite Header Info Screen

PEMS - Microsoft Internet Explorer provided by EECG Computer Service Center

Address: https://www-pems.bchteljacobs.org/pems/ppems/Pems.load_menus

Flow-Paced Monthly Composite Header Info

Required fields are marked with +

FPMC Number:	FP_FORM1 +
Task Code/Monitoring Location:	100-6/USER_GUIDE
Composite Date(mm/dd/yyyy):	
Composite Time(hhmm):	
Sampling Procedure/Rev.:	BCV OUI-3030-8 / Rev. 0 +
Logbook Number:	<input type="text"/> Search
Compositor Badge No.:	No Team Leader
Weather:	<input type="text"/>
Comments:	<input type="text"/>
Preserved/Non-Preserved:	<input type="radio"/> Preserved <input type="radio"/> Non - Preserved

[CLICK HERE TO CONTINUE](#)

This screen allows the user to enter the header information for compositing samples. Pick lists are provided with a list of available values for some fields. Other fields are optional free-form data entry. The *Preserved/Non-Preserved* field provides radio buttons for selection.

By clicking the Continue icon, depending on *Preservative/Non-Preserved* selection, it displays the Preserved or Non-Preserved Sample Compositing Main Screen.

Preserved / Non-Preserved Sample Compositing Main Screen

ORNL Water Quality Project - FY2004

Lab Data
Data
Management
Global Admin
Project Admin
Reports
What's New
Switch Project
Help

Preserved Sample Compositing

(A) Total Monthly Composite Volume of Preserved Samples (ml): **5,000**

Composite Sample ID: + Required

Delete Samples	Date Collected	Sample ID	(B) Flow Volume	Flow Units	(C) Percent of Total (B)/(D)	Aliquot Amount (ml) (A)/(C)
<input type="checkbox"/>	10/29/2003	X006004	4,855,200	GAL	70.67	3,533.52
<input type="checkbox"/>	05/12/2004	X007046	0	NA	0.00	0.00
<input type="checkbox"/>	05/26/2004	X007048	0	NA	0.00	0.00
<input type="checkbox"/>	06/02/2004	X007099	2,015,000	GAL	29.33	1,466.48
(D) Total Flow For Month:			6,870,200	GAL		

Delete Composite Samples Add Composite Samples

CLICK HERE

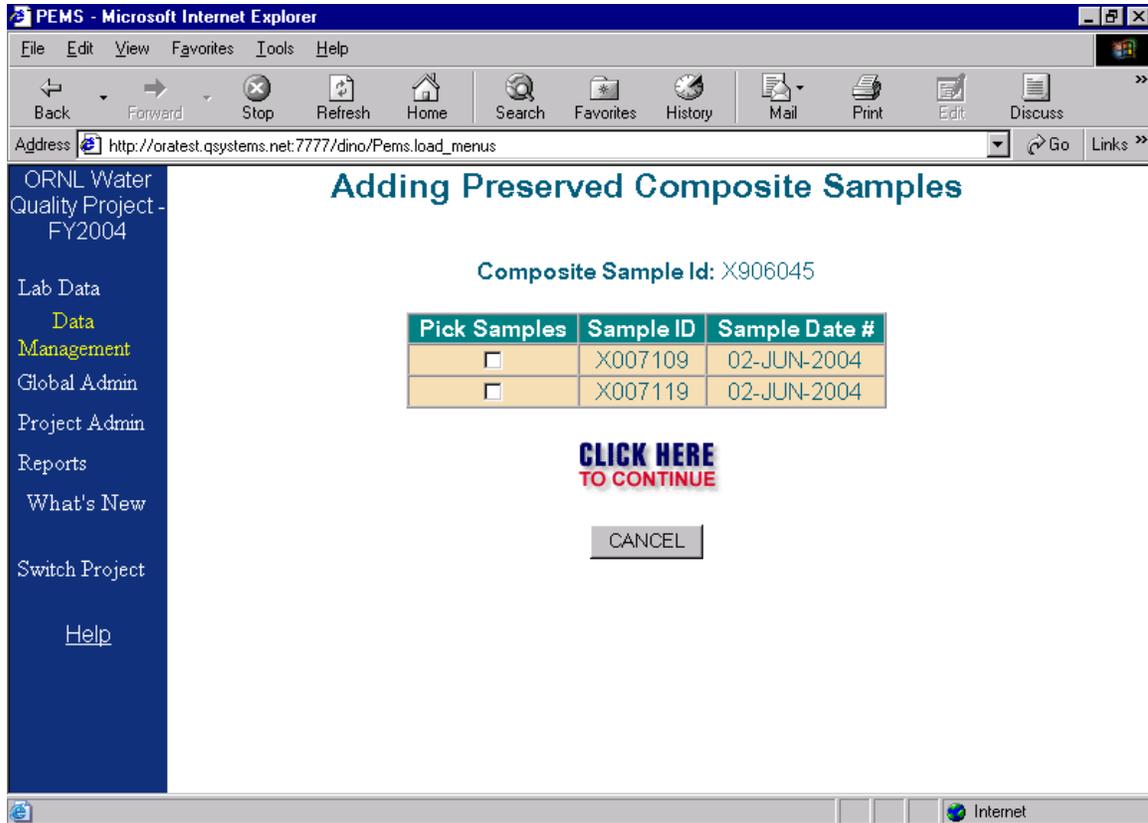
This screen displays collected samples with aliquot amount calculated on the percentage of flow volume. The Composite Sample Id is a required entry to identify all these samples to be composite.

The *Delete Composite Samples* button allows the user to remove any sample from the composite. By selecting the checkbox(es) and click this button, it completes the deletion process.

The *Add Composite Samples* button allows the user to add more sample collection into the composite. By clicking this button, it displays the Adding Preserved / Non-Preserved Composite Samples Screen.

By clicking the Continue icon, it moves on to display the Adding Preserved / Non-Preserved Split Samples Edit Screen.

Adding Preserved / Non-Preserved Composite Samples Screen

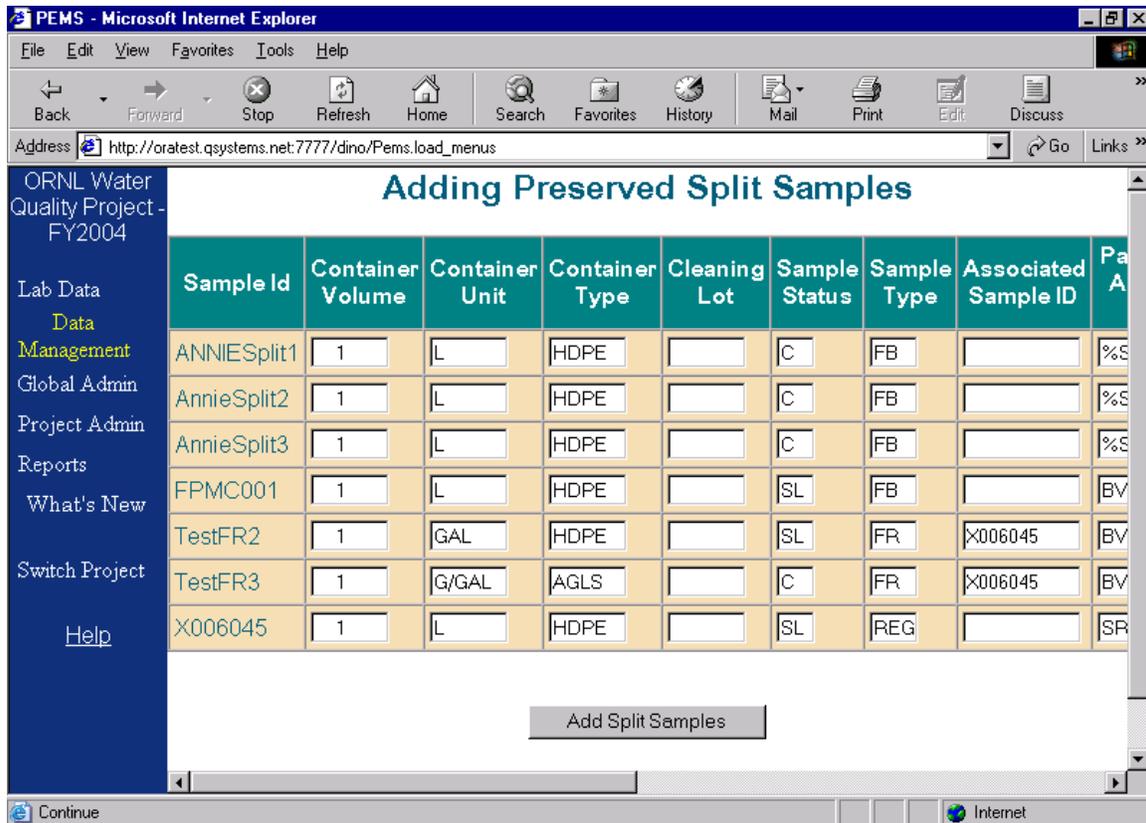


This screen allows user to add more collected samples into the composite.

By selecting the checkbox(es) and clicking the Continue icon, it puts the selected samples under the same Composite Sample Id and returns to Preserved / Non-Preserved Sample Compositing Main Screen.

By clicking the *Cancel* button, it returns to Preserved / Non-Preserved Sample Compositing Main Screen without putting any sample collection into the composite.

Adding Preserved / Non-Preserved Split Samples Edit Screen



This screen displays all samples being split from the selected Composite Sample Id. The user can edit any split sample information.

By clicking the *Add Split Samples* button, it displays the Add Split Sample Screen for the user to enter more split sample information.

By clicking the Continue icon (not shown), it saves all split sample information. When all split samples pass data validation, it displays a screen with message on 'Sample Compositing has been done' and a Continue icon. By clicking the Continue icon on this message screen, it returns to the Flow-Paced Monthly Composite Main Screen.

Add Split Sample Screen

PEMS - Microsoft Internet Explorer

Address: http://oratest.qsystems.net:7777/dino/Pems.load_menus

ORNL Water Quality Project - FY2004

Add Split Sample

Required fields are marked with +

Lab Data	FPMC Number:	WRRP05030
Data Management	Sample ID:	<input type="text" value=""/>
Global Admin	Monitoring Location:	WC7500(7500 bridge at white oak creek)
Project Admin	Sampling Dev:	20-2020 Photoionization air monitor-PID
Reports	Procedure No.:	MDM-TP-8324
What's New	Procedure Rev.:	0
Switch Project	Sample Type:	FB (Field Blank)
Help	Collection Method:	<input type="text" value=""/>

Done Internet

PEMS - Microsoft Internet Explorer

Address: http://oratest.qsystems.net:7777/dino/Pems.load_menus

ORNL Water Quality Project - FY2004

Lab Data	Collection Method:	<input type="text" value=""/>
Data Management	Averaging Period:	<input type="text" value=""/>
Global Admin	Preserved:	-(NO PRESERVATIVE REQUIRED)
Project Admin	Analysis Group:	%SOLIDS (Percent Solids)
Reports	Container Volume:	<input type="text" value=""/> Search
What's New	Container Unit:	<input type="text" value=""/>
Switch Project	Container Type:	<input type="text" value=""/>
Help	Label Quantity:	1

CLICK HERE TO CONTINUE

Done Internet

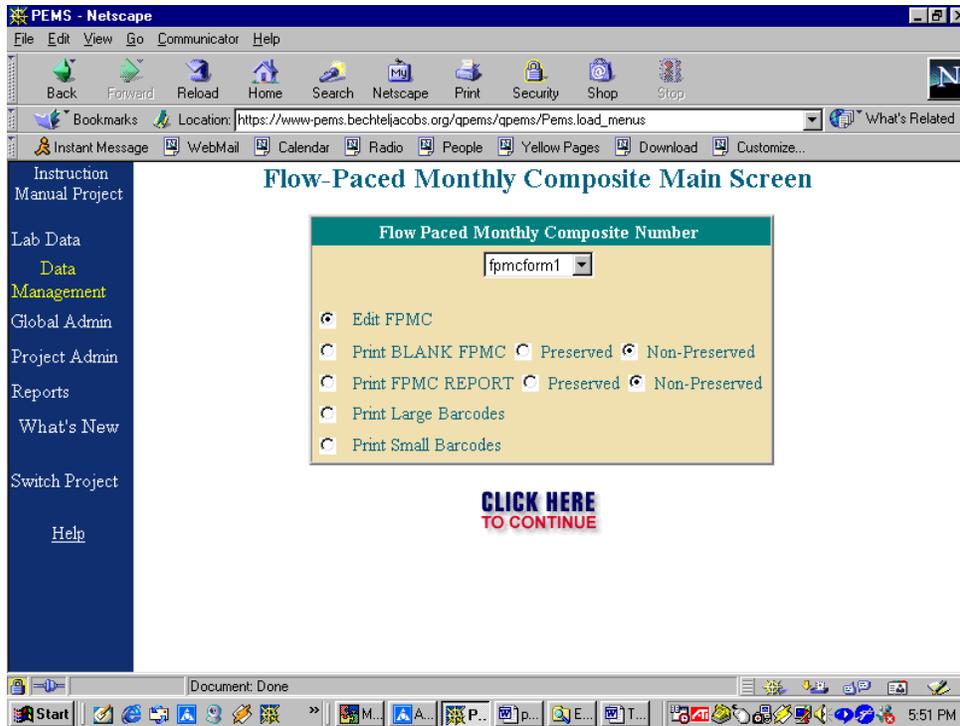
This screen allows the user to enter information about the sample being split from the composite. It follows the same data validation for new sample.

For Preserved composite sample, there is a pick list for available preserved codes. For Non-Preserved composite sample, there is no entry for Preserved code.

By clicking the Continue icon, it saves the split sample information and returns to Add Preserved / Non-Preserved Split Samples Edit Screen.

Flow Paced Monthly Composite Main Screen

(Printing Section)



The Blank Report uses as a worksheet for sample collections. By clicking the Continue icon after selecting the FPMC number, Print BLANK FPMC button and Preserved / Non-Preserved button, it displays the Sample Log Sample Query Screen for the user to select desired sample(s) for sample collections to be composite. (Explanation has been given in previous pages).

The FPMC Report shows all samples being involved during the whole composite process like planning, compositing and splitting. By clicking the Continue icon after selecting the FPMC number, Print FPMC REPORT button and Preserved / Non-Preserved button, it generates the FPMC Report in Microsoft Word Rich Text Format (rtf).

The Print Large Barcodes allows the user to select one or a range of FPMC numbers to print barcode information on 3 inches by 4 inches labels. By clicking the Continue icon after selecting the FPMC number, Print Large Barcode button, it display a query screen for the user to choose Sample Id(s) and a starting label position.

The Small Barcodes allows the user to select one or a range of FPMC numbers to print barcode information on 1 inch by 2 inches labels. By clicking the Continue icon after selecting the FPMC number, Print Small Barcode button, it displays a query screen for the user to choose Sample Id(s) and a starting label position.

Sample of FPMC Report

Project Environmental Measurement System (PEMS)
Flow-Filed Monthly Composite Form
Preserved Sample Compositing for October, 2003

Page: 1 of 1
Date: 11/03/2004 8:15 AM

Project: KWQM-004
Task: BWW-1
Monitoring Loc: KACHWAERK
FPMC No.: WKKH0000

Compositor: POP Number/Revision: MDM-19-85240 Date: 30-OCT-03
Field Log book: L2427 Weather: Time: 900

(A.) Total Monthly Composite Volume of Preserved Samples (ml) 5,000

Weekly Retrieval Number	FCCO Number	Planned Date	Date Collected	Sample ID	(B) Total Flow Volume Since Last Retrieval (gal)	(C) Percent of Total Flow Volume (B/D)*100	Adjust Amount (ml) A*(C/100)
1	WRRR03029	10/29/2003	10/29/2003	X006004	4,855.200GAL	100.00	5,000.00
2	WRRR03995	03/12/2004	03/12/2004	X006045	0NA	0.00	0.00

(D.) Total Flow Volume for Month (gal): 4,855,200

Comments:

Composite Sample ID: X906045

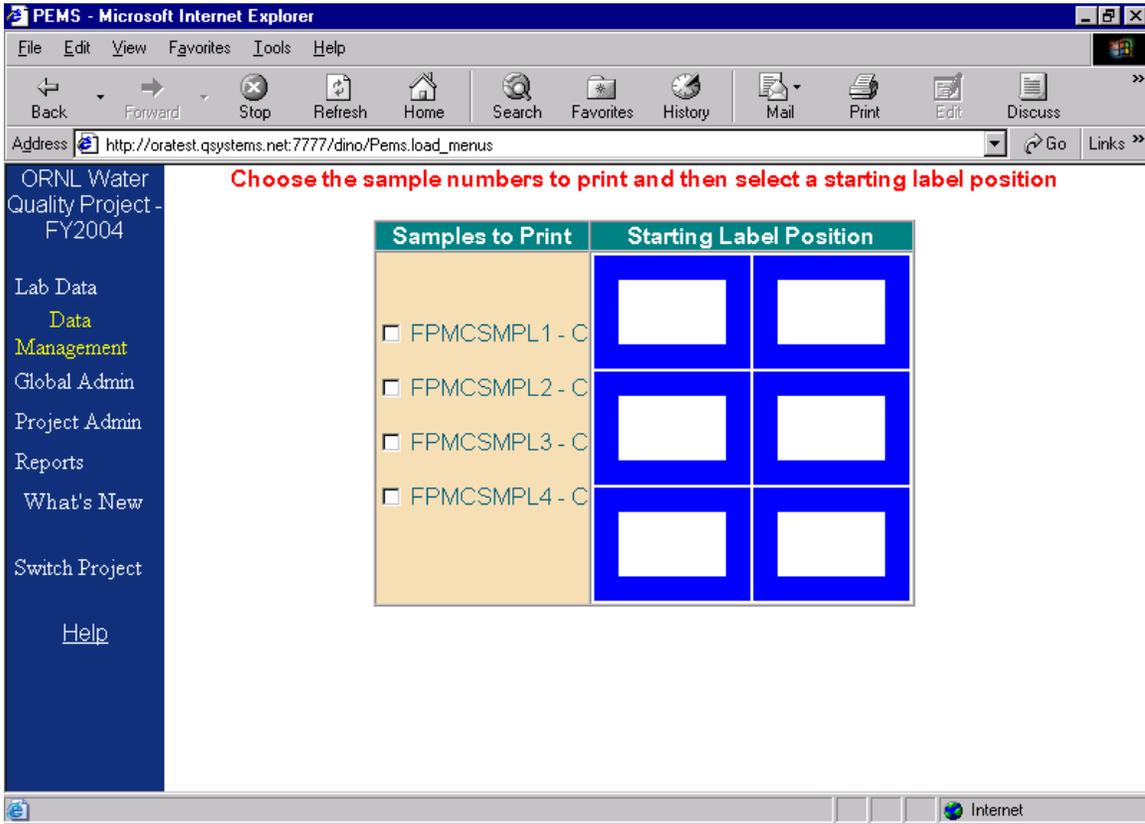
Surface Water Split Sample Compositing

Sample ID	Sample Time	Associated Sample ID	Sample Type	Sample Status	Container Volume	Container Type	Parameter Analysis Group	pH	Preservative Code
ANNIESP11	900		FE	C	1 L	HDPE	YS OLIDS		40/ZHE
ARRISPE2	900		FE	C	1 L	HDPE	YS OLIDS		40/ZHE
ARRISPE3	900		FE	C	1 L	HDPE	YS OLIDS		40/ZHE
FPM0001	900		FE	SL	1 L	HDPE	BWWS-KAD04		124 5678
TestRK2	900	X006045	FE	SL	1 ML	HDPE	BWWS-KAD04		CHILL NO B
TestRK3	900	X006045	FE	C	1 ML	AGLS	BWWS-KAD04		FREEZE
X006045	900		RED3	SL	1 L	HDPE	SR-90		HNC3

Page 1 Sec 1 1/1 At 1.5" Ln 1 Col 1 REC TRK EXT OVR

The selected samples are printed right after the header information. All samples that are already set up for the FPMC number using Task Map module are printed on the bottom part of the worksheet.

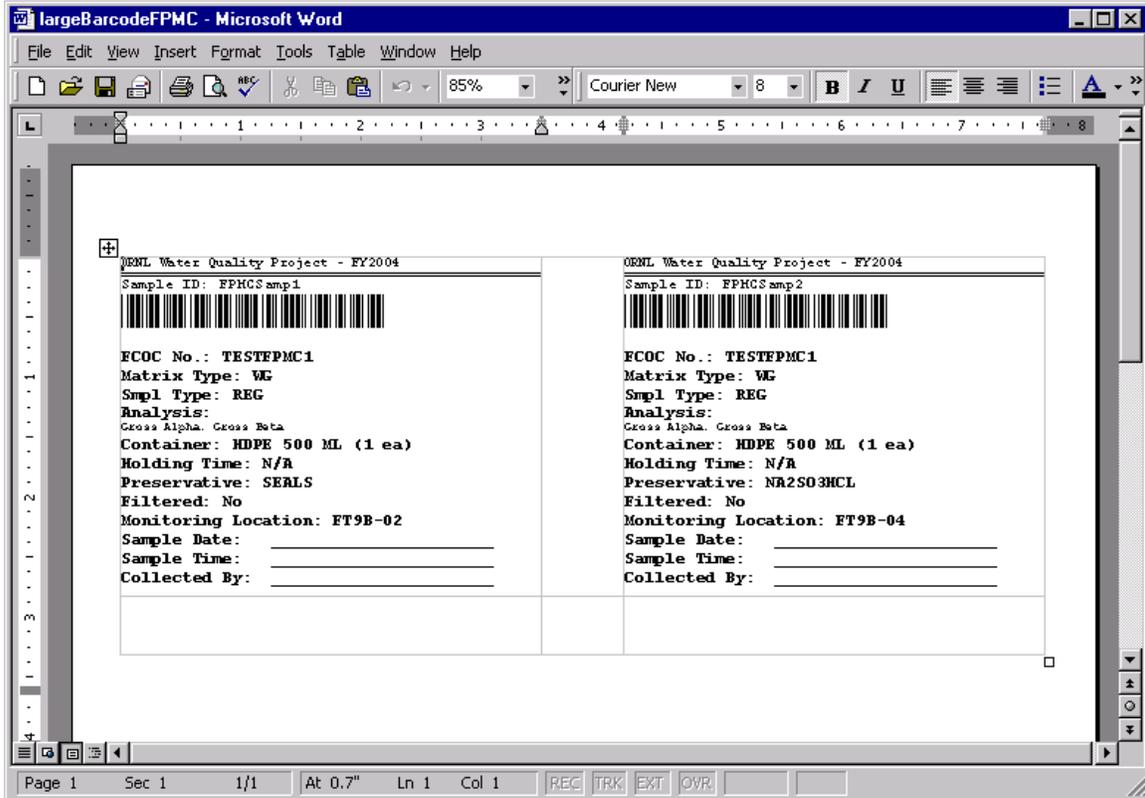
Print Large Barcodes



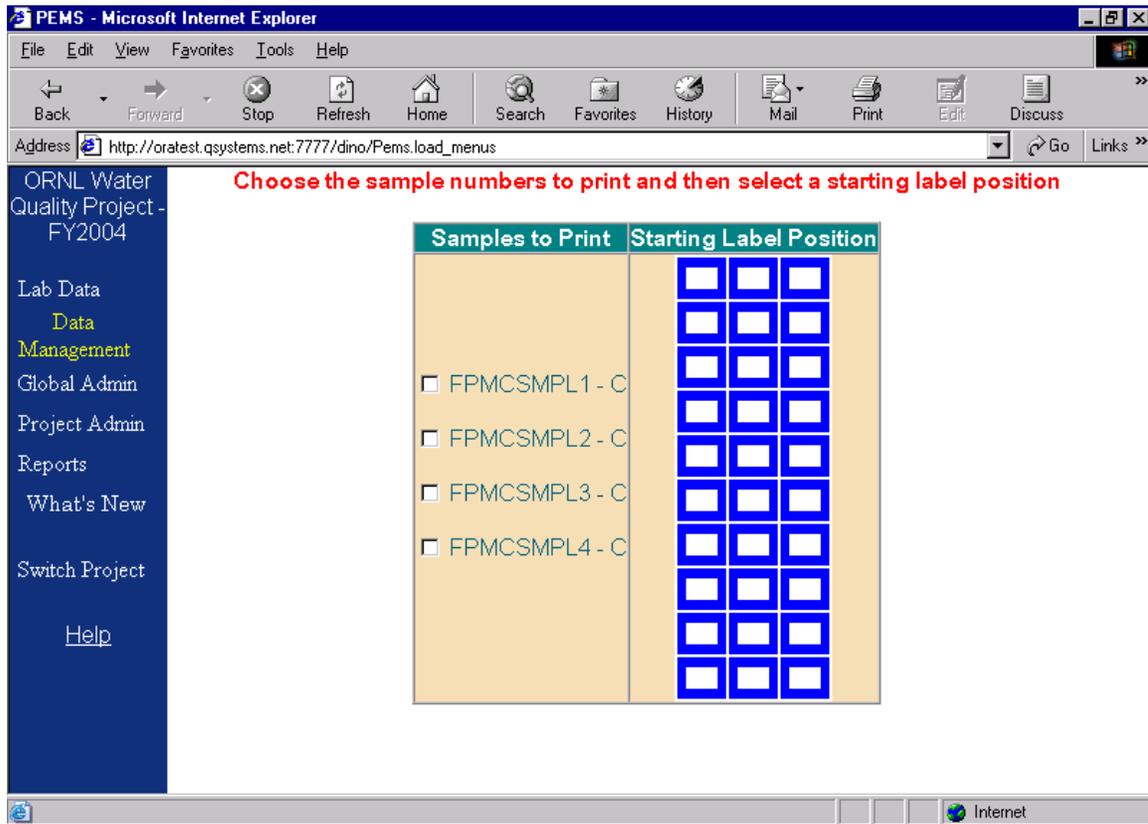
This screen allows the user to select the desired Sample IDs and the beginning print position. The diagram shows the number and position of labels that will fit on an 8 ½ x 11 page of label stock. With the appropriate label stock and the barcode fonts installed, labels can be printed using a standard laser printer.

The printing barcode program uses the individual Sample's label quantity to determine the number of labels should be printed for the sample.

Sample of Large Barcode



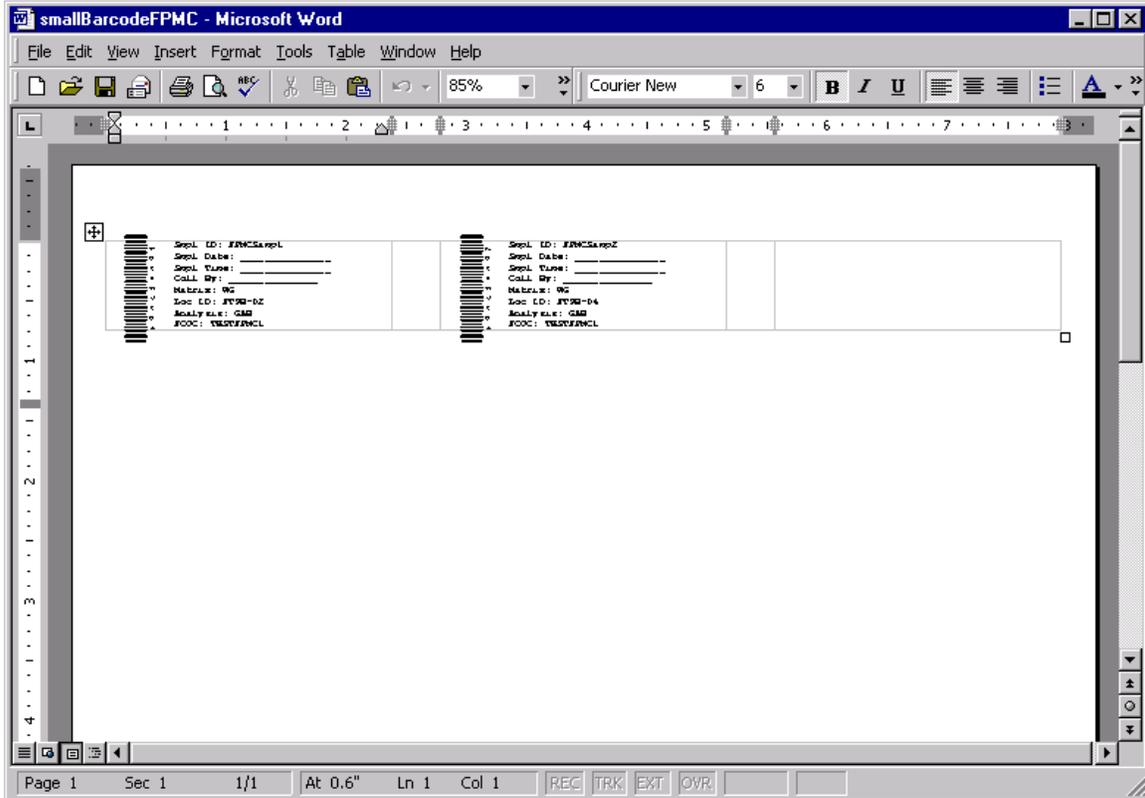
Print Small Barcode



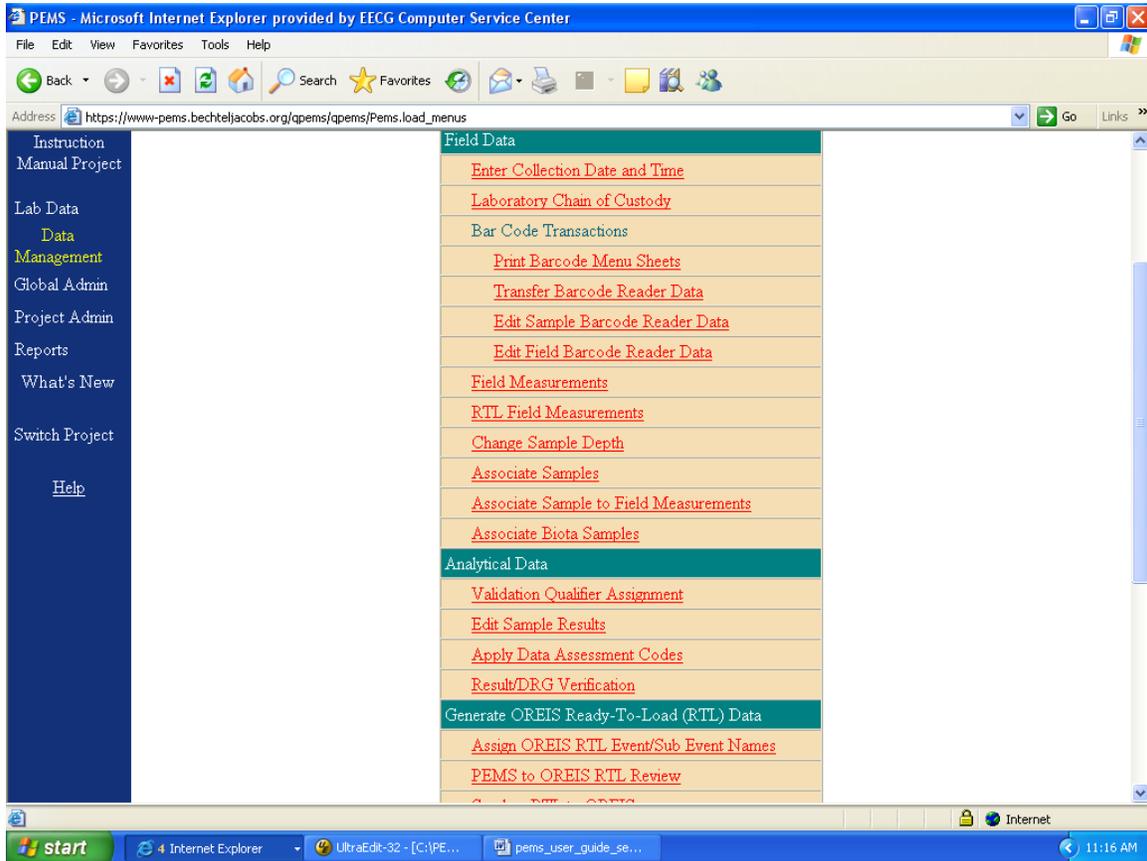
This screen allows the user to select the desired Sample IDs and the beginning print position. The diagram shows the number and position of labels that will fit on an 8 ½ x 11 page of label stock. With the appropriate label stock and the barcode fonts installed, labels can be printed using a standard laser printer.

The printing barcode program uses the individual Sample's label quantity to determine the number of labels should be printed for the sample.

Sample of Small Barcode

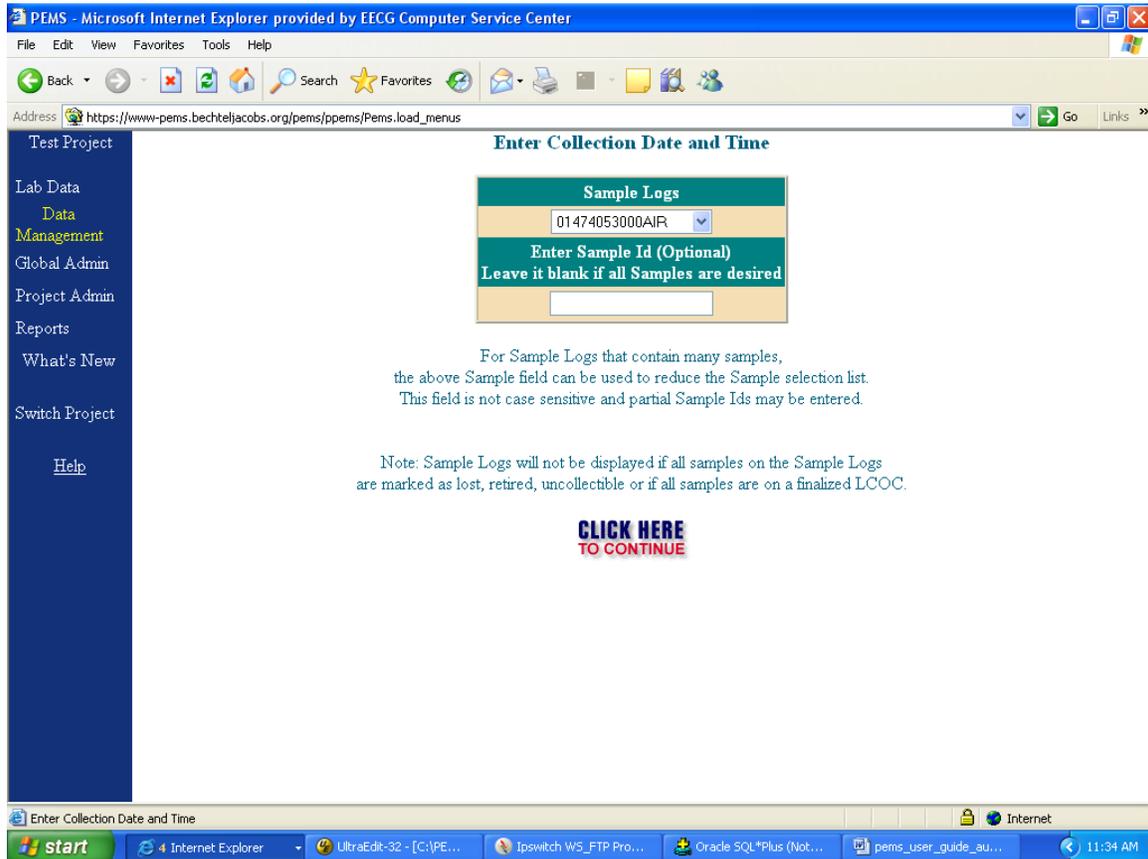


Field Data



The Field Data section provides capabilities for the user to update sample information during the collection process and prepare the samples to be sent to laboratory for analysis.

Enter Collection Date and Time Main Screen

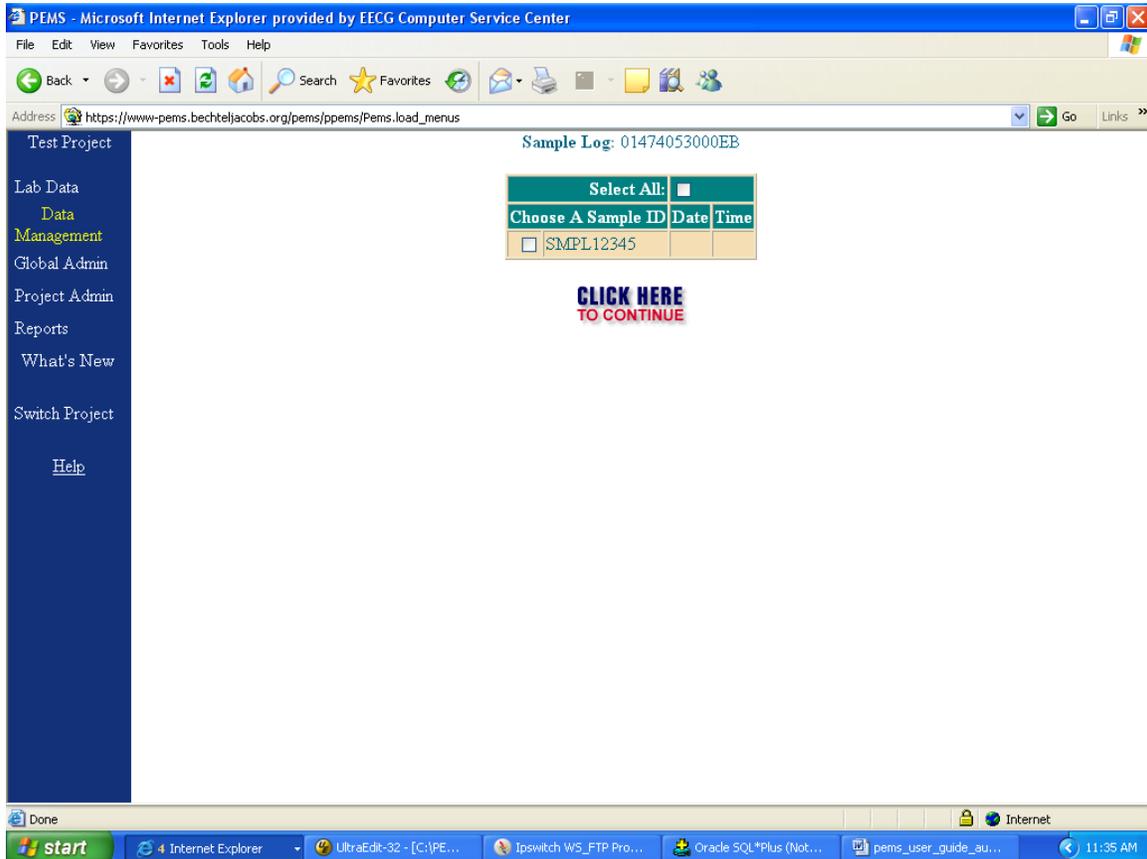


This screen allows the user to edit sample collection dates, times, top depths, bottom depths, and depth units for an individual sample or a group of samples.

The optional Sample Id field can be used to just display samples whose Ids start with the input character(s).

By clicking the Continue icon and selecting a Sample Log number with or without any input for the optional Sample Id field, the Sample Log Screen is displayed. If there is no sample found for the characters given at the optional Sample Id field, it displays a message 'No Samples were found that match your Sample Id entry' and a button to return to Enter Collection Date and Time Main Screen.

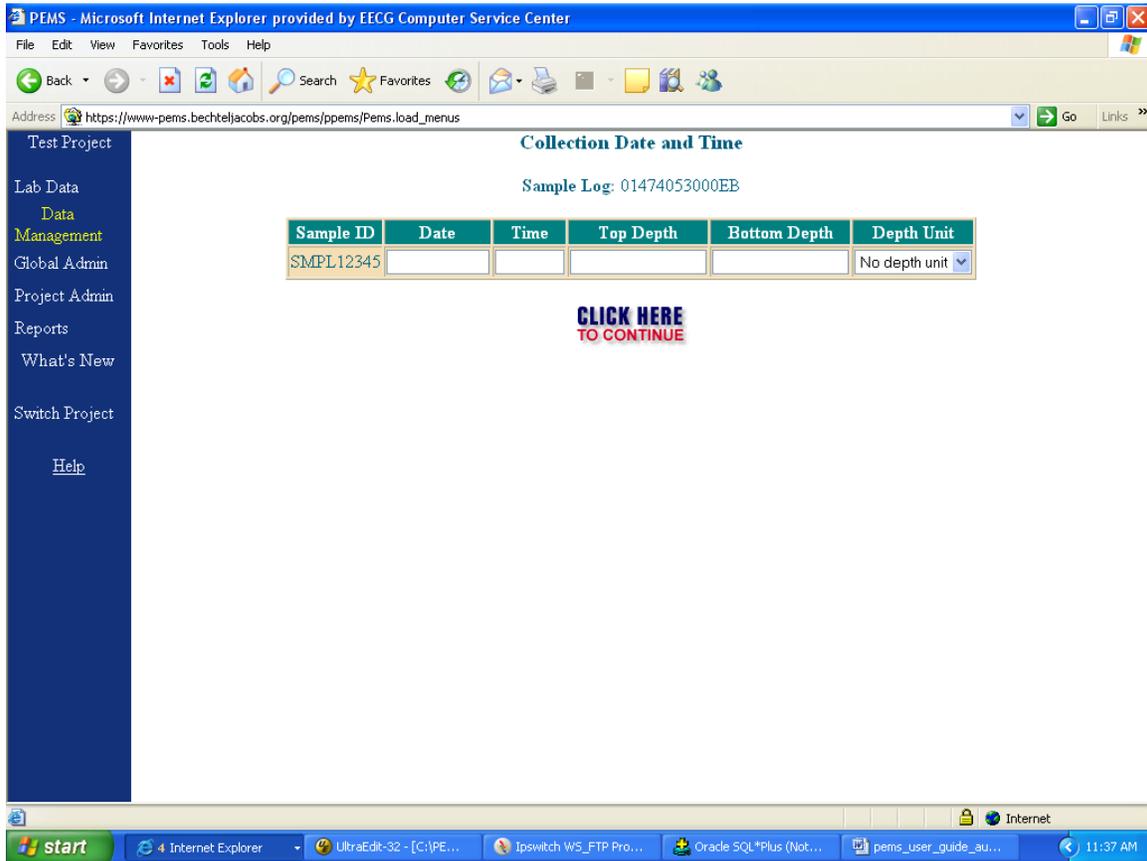
Sample Log Screen



This screen allows the user to select sample(s) to be edited for the collection information. The *Select All* checkbox can be used to mark all displayed samples.

By clicking the Continue icon, it displays the Collection Date and Time Edit Screen.

Enter Collection Date and Time Edit Screen



This screen allows the user to enter the date, time, top depth, bottom depth and depth unit for the selected sample(s) of the selected Sample Log number.

By clicking the Continue icon, it saves the information and returns to the Enter Collection Date and Time Main Screen.

Enter Collection Date and Time Main Screen

Test Project

Lab Data

Data Management

Global Admin

Project Admin

Reports

What's New

Switch Project

Help

Enter Collection Date and Time

Sample Logs

01474053000EB

Enter Sample Id (Optional)
Leave it blank if all Samples are desired

For Sample Logs that contain many samples, the above Sample field can be used to reduce the Sample selection list. This field is not case sensitive and partial Sample Ids may be entered.

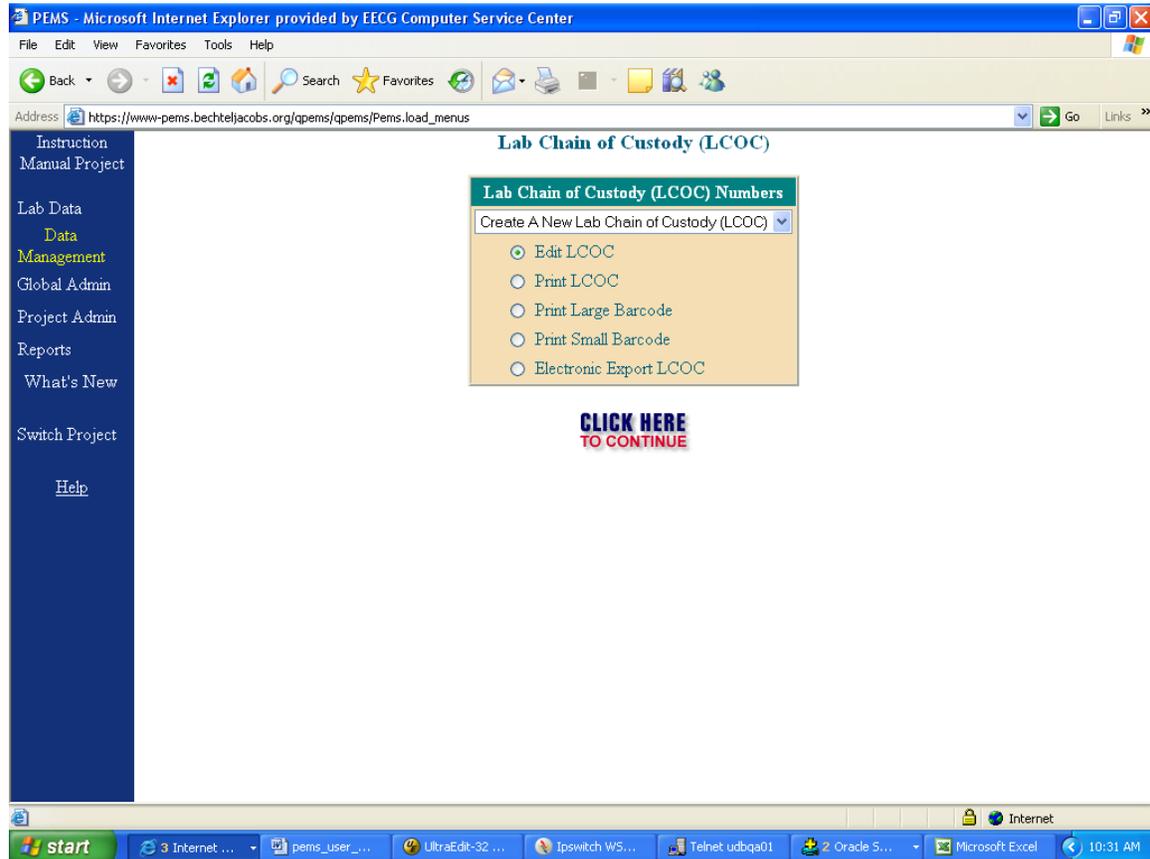
CLICK HERE TO CONTINUE

The following samples have been updated

Sample ID	Date	Time
SMPL12345	08/12/2005	1000

A list of saved collection information is displayed near the bottom part of the Enter Collection Date and Time Main Screen.

Lab Chain of Custody Main Screen

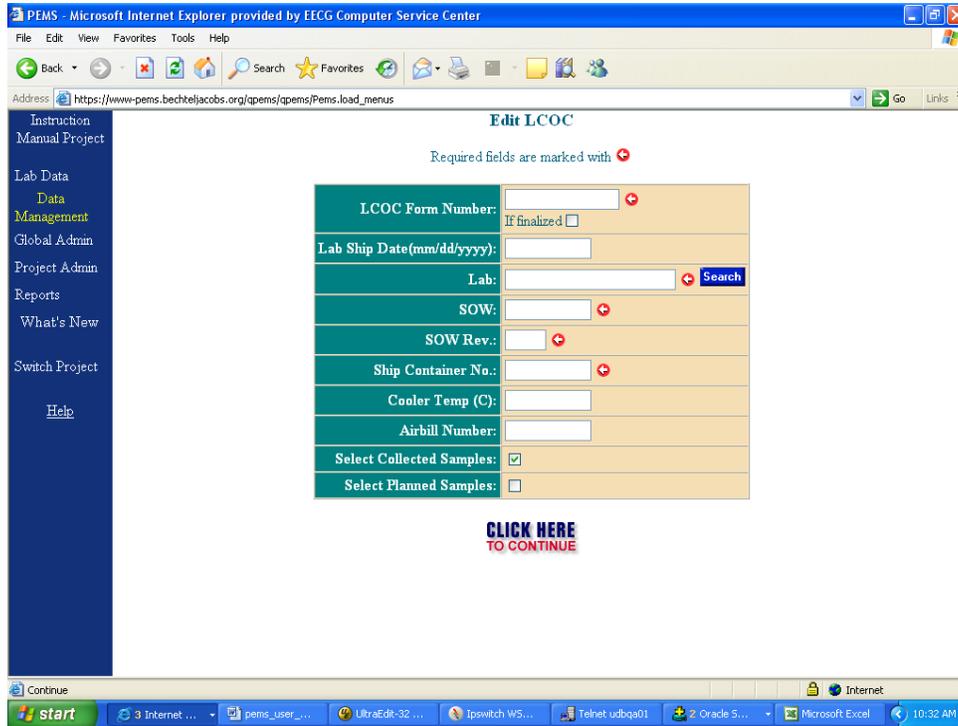


Lab Chain of Custody allows the user to set up Lab Chain of Custody information for a group of collected samples to be sent to laboratory. The Lab Chain of Custody Main Screen is divided into editing or printing sections.

The editing section allows the user to create a new or edit an existing Lab Chain of Custody by entering LCOC information and selecting sample(s) to be sent to laboratory. The printing section allows the user to print detail LCOC information, Large Barcode or Small Barcode, and to generate an electronic copy of LCOC.

By clicking the Continue icon, it activates the action depending on the selected option.

Edit LCOC Screen – Create a New LCOC

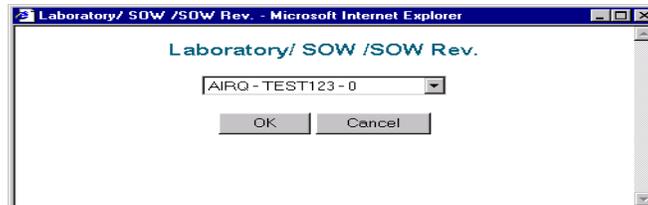


This screen is used to create a new LCOC. The LCOC form Number must be entered and must be unique with maximum of 15 alphanumeric characters.

The *If finalized* checkbox is used to set the LCOC to be finalized and all sample information cannot be edit through PEMS. If there is any minor sample information needs to be modified, the user needs to contact PEMS User Support.

The *Select Collected Samples* and *Select Planned Samples* checkboxes allow the users to select collected, planned or both samples to be included on a LCOC.

The *Search* button provides a pop-up window with a list of available Laboratory / SOW / SOW Rev. The selected values are populated onto appropriate fields.



By clicking the Continue icon, it saves the information and moves on to display the Choose The Samples To Add To This Lab Chain of Custody Screen.

Edit LCOC Screen – Edit an existing LCOC

This screen is used to edit an existing LCOC. The *Rename This LCOC* provides a pop-up window with a prompt to enter a new LCOC name. By entering the new LCOC name and click *OK* button, it saves the new LCOC name and returns to the Edit LCOC Data Entry Screen. The *Cancel* button will not save any information and returns to the Edit LCOC Data Entry Screen.

The *Delete LCOC* button can be used to remove the LCOC from the system. It provides a pop-up window with prompt message to confirm the action.

By clicking the Continue icon, it saves the information and moves on to display the Choose The Samples To Add To This Lab Chain of Custody Screen.

Choose The samples To Add To This Lab Chain of Custody Screen

PEMS - Microsoft Internet Explorer provided by EECG Computer Service Center

Address: https://www-pems.bechteljacobs.org/apems/apems/Pems.load_menus

Lab Chain of Custody (LCOC)

Choose The Samples To Add To This Lab Chain of Custody

	Sample ID	Analysis Group	Sample Status
<input type="checkbox"/>	TSKREFADD1	1227CHEM1	Planned
<input type="checkbox"/>	WB-01-1	1227CHEM1	Collected
<input type="checkbox"/>	fpmc1	1227CHEM1	Planned
<input checked="" type="checkbox"/>	testsmp1	1227CHEM1	Collected

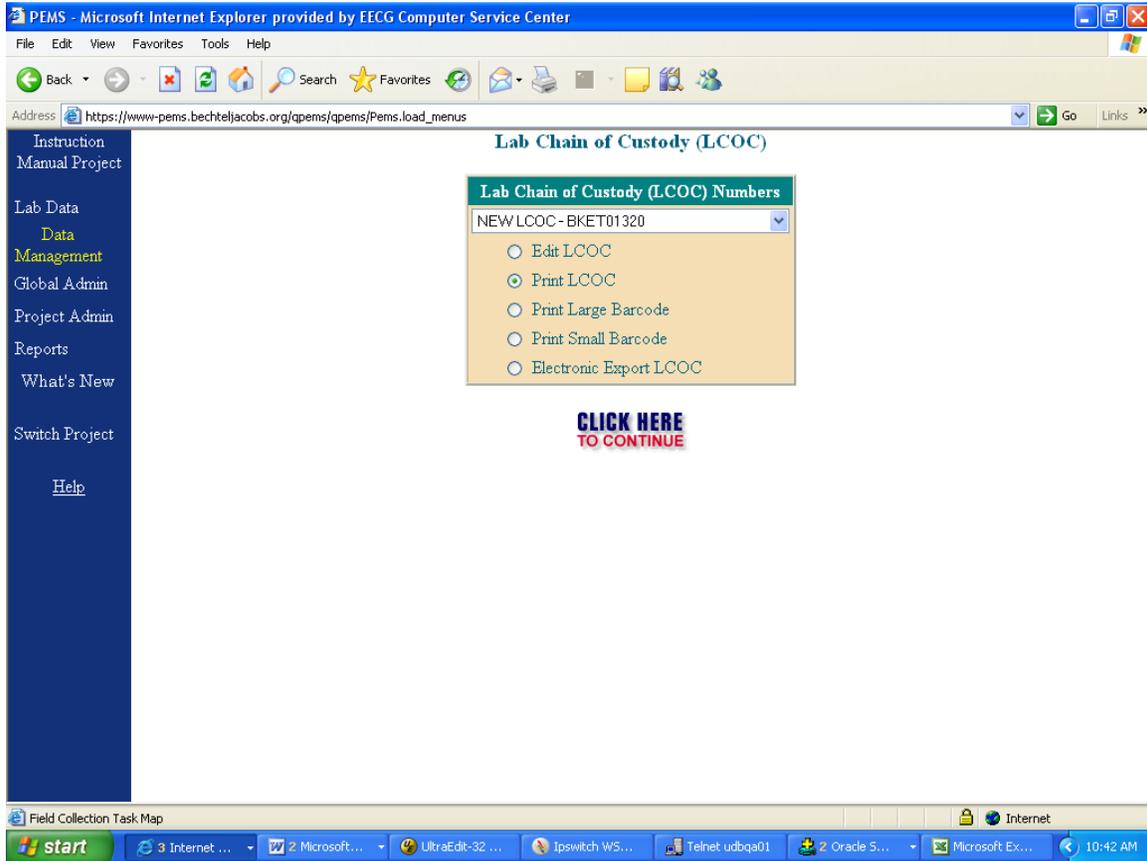
CLICK HERE TO CONTINUE

This screen allows the user to add samples to the selected or created LCOC.

The list of samples is displayed based on the marking of *Select Collected Samples* and/or *Select Planned Samples* checkboxes on the Edit LCOC screen.

By clicking the Continue icon, it saves the information and returns to Lab Chain of Custody (LCOC) Main Screen.

Print LCOC Information



The Print LCOC allows the user to print detail Lab Chain of Custody information. By selecting a LCOC number and clicking the Continue icon, it displays the LCOC Printout.

Sample of LCOC Printout

Project Environment Measurements System (PEMS)

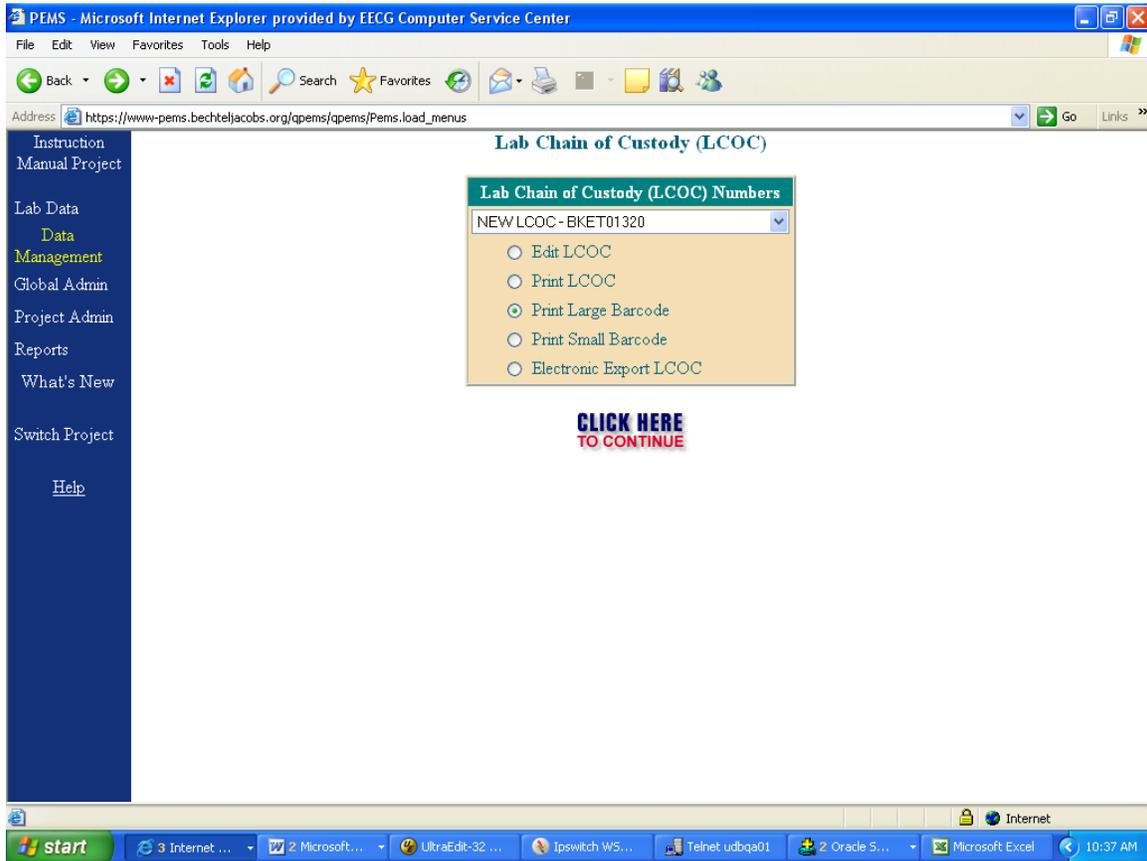
Laboratory Lab Chain of Custody (LCOC)
 Project: INSTMAN SOW: BKET01320
 Lab Chain of Custody (LCOC) Number: NEW LCOC

Date: 11/08/2005 10:35 AM

Sample ID	Sample Log	Task	Matrix	Smpl Type	Sample Container				Sample Date	Smpl Time	Associate Sample ID	Param Anly Group	Preservative	Remarks
					Vol	Unit	Type	Qty						
fpncl		1407J	WG	REG	10	OZ	POLY	1			SVOC, Pesticides, Ignitability, pH, Oil & Grease, Paint Filter	None		
testnpll	fcoc_docl	1407J	WD	REG	10	OZ	POLY	1	21-MAR-2003	1249	SVOC, Pesticides, Ignitability, pH, Oil & Grease, Paint Filter	None		
Laboratory:			Date Submitted To Lab:			Ship Container No:			SSC ID:		Cooler Temperature:		Airbill No:	
DCSL - DCSL			04-MAR-2005			1					DEG C		BKET01320	
Relinquished by:			Date(mm/dd/yyyy):			Time:			Received by:		Date(mm/dd/yyyy):		Time:	
Relinquished by:			Date(mm/dd/yyyy):			Time:			Received by:		Date(mm/dd/yyyy):		Time:	
Relinquished by:			Date(mm/dd/yyyy):			Time:			Received by:		Date(mm/dd/yyyy):		Time:	
Relinquished by:			Date(mm/dd/yyyy):			Time:			Received by:		Date(mm/dd/yyyy):		Time:	
Comments:														

The LCOC Printout is in Microsoft Word Rich Text Format (rtf).

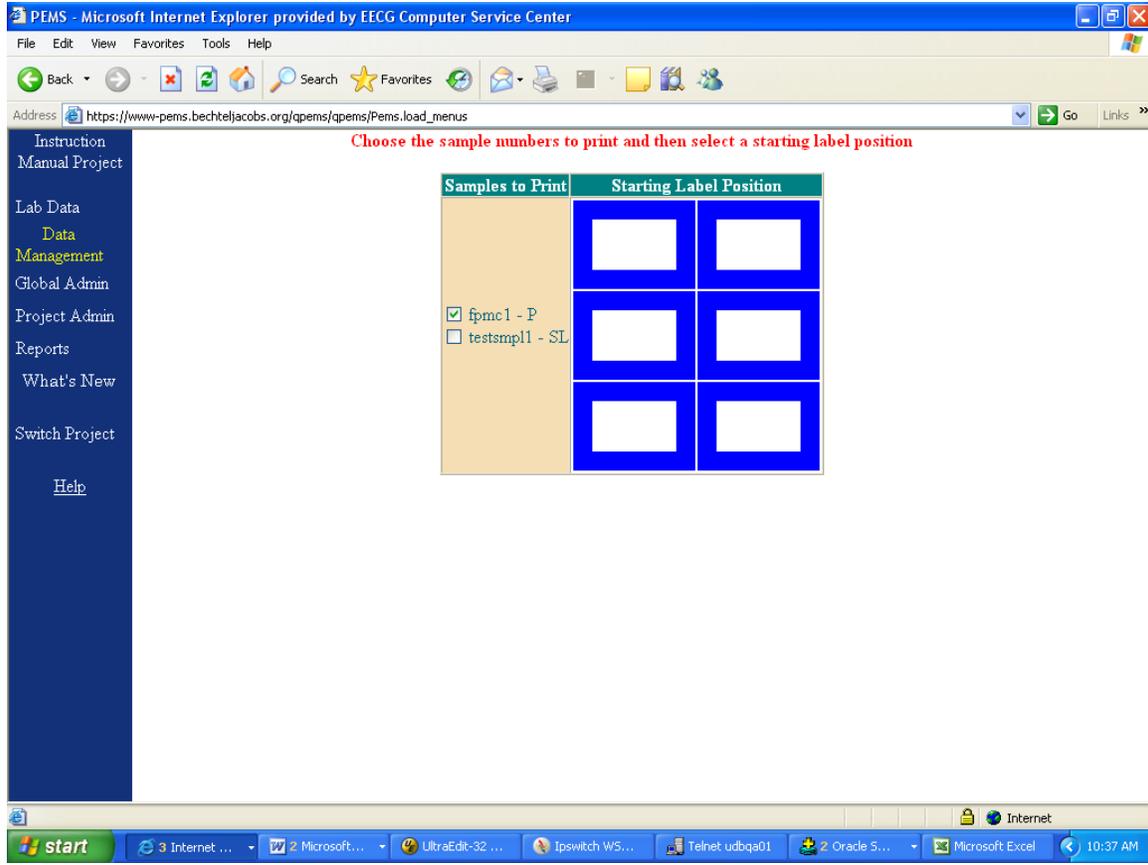
Print Large Barcode LCOC Labels



The Print Large Barcodes allows the user to print LCOC barcode information on 3 inches by 4 inches labels.

By selecting a LCOC number and clicking the Continue icon, it displays a query screen for the user to choose Sample Id(s) and a starting label position.

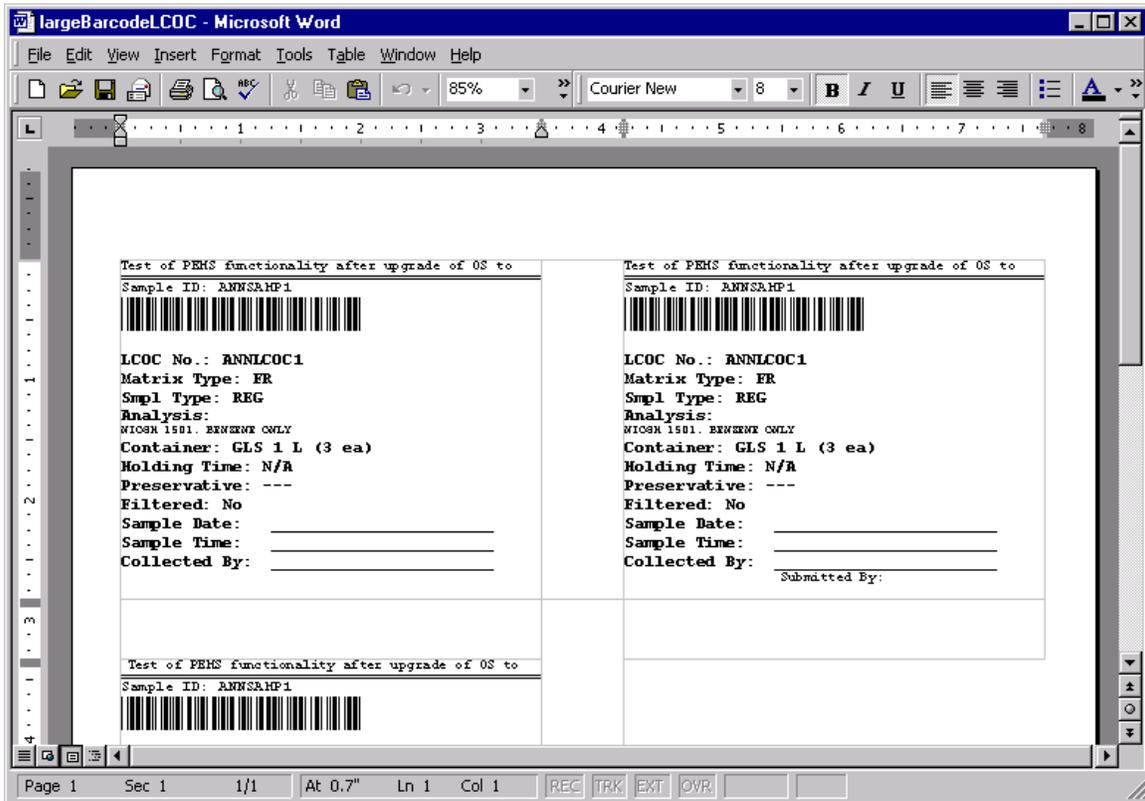
Print Large Barcode LCOC Labels



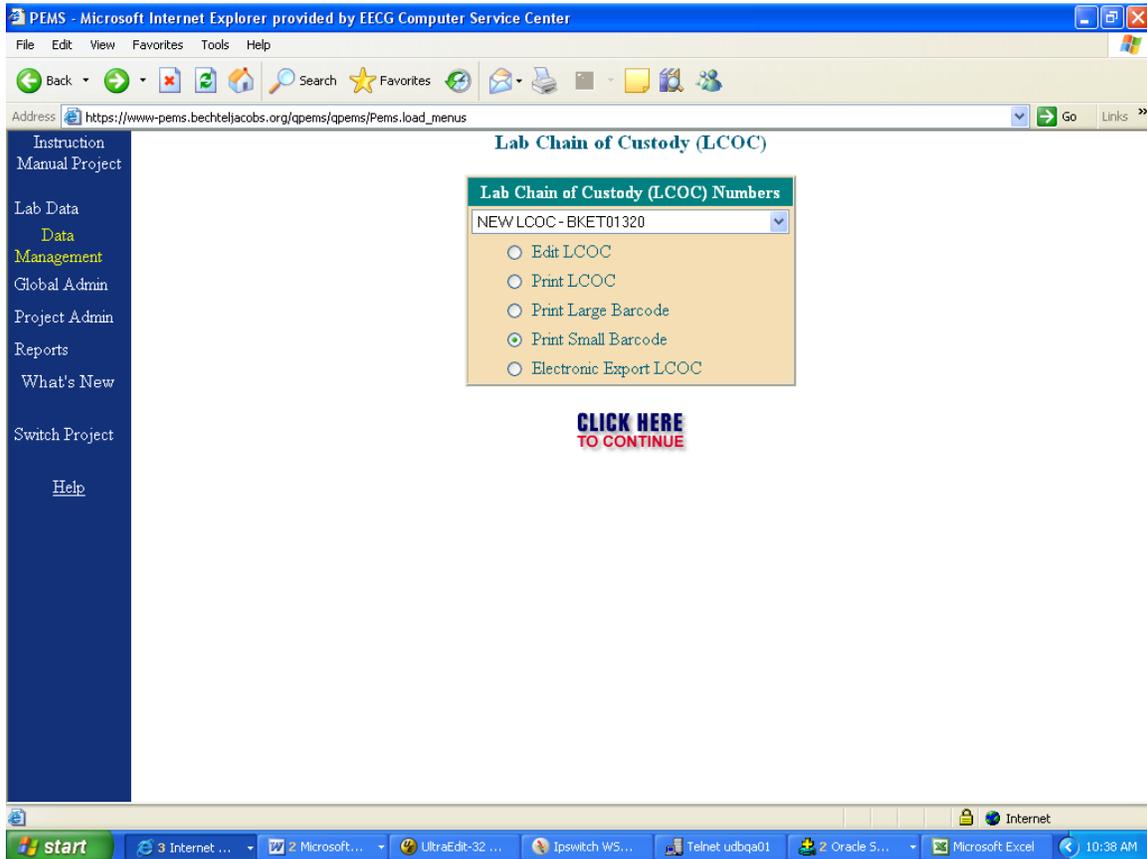
This screen allows the user to select the desired Sample IDs and the beginning print position. The diagram shows the number and position of labels that will fit on an 8 ½ x 11 page of label stock. With the appropriate label stock and the barcode fonts installed, labels can be printed using a standard laser printer.

The printing barcode program uses the individual Sample's label quantity to determine the number of labels should be printed for the sample.

Sample of Large Barcode LCOC Labels



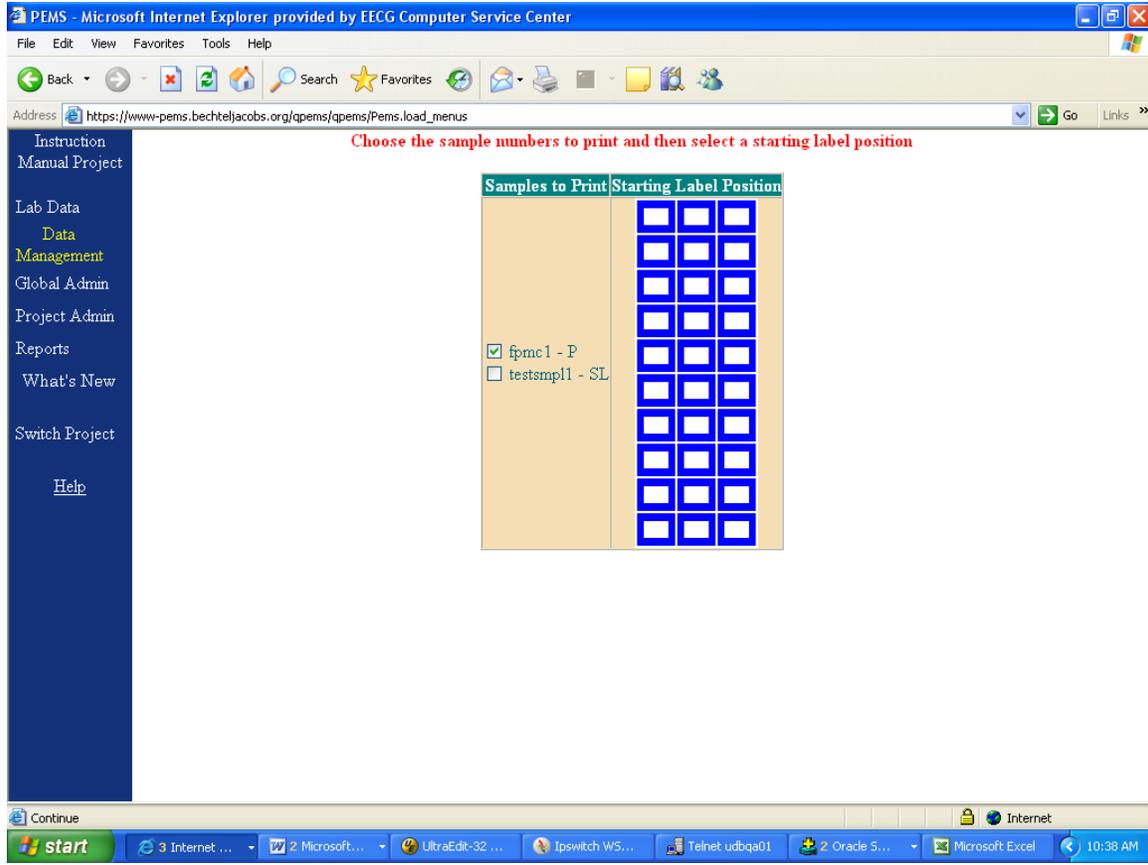
Print Small Barcode LCOC Labels



The Print Small Barcode allows the user to print barcode information on 1 inch by 2 inches labels.

By selecting the LCOC number and clicking the Continue icon, it displays a query screen for the user to choose Sample Id(s) and a starting label position.

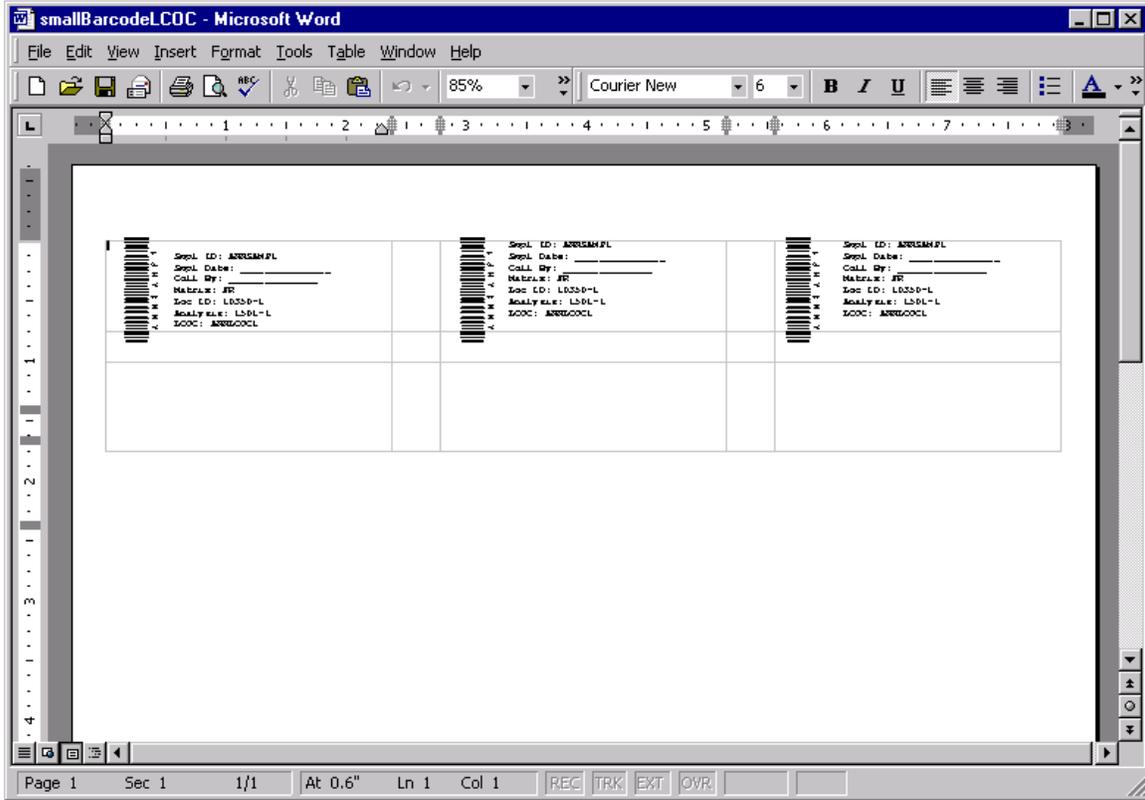
Print Small Barcode LCOC Labels



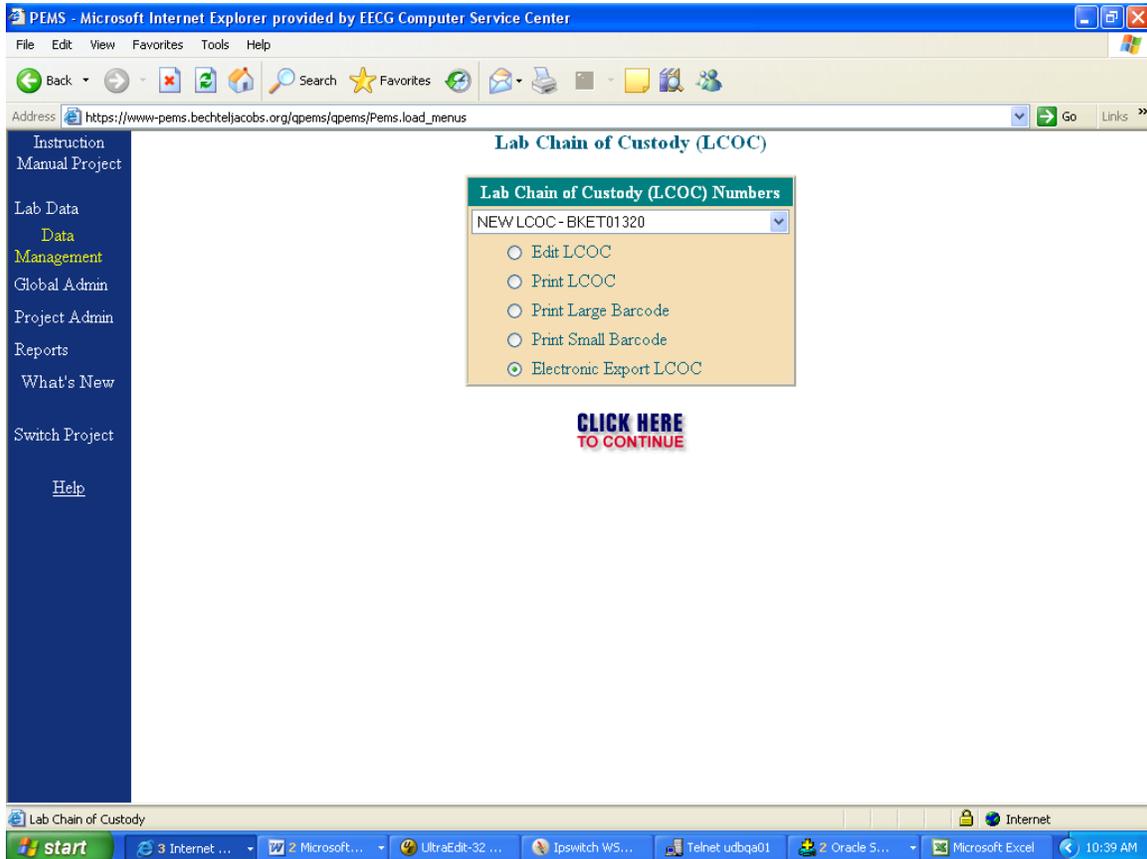
This screen allows the user to select the desired Sample IDs and the beginning print position. The diagram shows the number and position of labels that will fit on an 8 ½ x 11 page of label stock. With the appropriate label stock and the barcode fonts installed, labels can be printed using a standard laser printer.

The printing barcode program uses the individual Sample's label quantity to determine the number of labels should be printed for the sample.

Sample of Small Barcode LCOC Labels



Electronic Export LCOC



The Electronic Export LCOC generates all samples information in .csv format using EXCEL for the selected LCOC number.

By selecting the LCOC number and clicking the Continue icon, it downloads an electronic copy of the LCOC in .csv format.

Sample of Electronic Export LCOC

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	EP_ID	LCOC_No	SmpI_ID	Sample_Log	Task	Matrix	SmpI_Type	SmpI_Con	SmpI_Con	SmpI_Con	SmpI_Con	SmpI_Date	SmpI_Time	Assoc_Sm	Param_
2	INSTMAN	NEW LCOC	fpmc1		1407J	WG	REG	10 OZ		POLY		1			SVOC,
3	INSTMAN	NEW LCOC	testmpl1	fcoc_doc1	1407J	WD	REG	10 OZ		POLY		1	3/21/2003	1249	SVOC,
4															
5															
6															
7															
8															
9															
10															
11															
12															
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32															
33															

Bar Code Transactions

Please contact PEMS support for help with barcode readers, programs, etc.

Email pems@ettp.doe.gov

Download PEMS.HEX from the PEMS home page.
<https://www-pems.ettp.energy.gov/pems/home/home.html>

Users need an internet ready PC with a 9-pin male COM1 port to load C Programs into the bar code readers. The user will need to download the COMMUNICATIONS.EXE file from the PEMS homepage, then unzip the file and follow the readme.txt instructions.

The project may use barcode readers for collection of field data and sample data. During the course of the operation the Bar Code reader, two files will be generated:

- FIELD.DAT, A file containing field measurement transactions.
- SAMPLE.DAT, A file containing sample collection transactions.

Each transaction appends a row to one of the files, depending on the type of transaction. The files are in Comma-Separated-Values (.csv) format. The commas are at fixed positions. This file is uploaded to your PC and then uploaded in the PEMS database. The file may be modified while it is on the user's PC before uploading it to the PEMS database.

FIELD.DAT

Beginning Column Position	Length	Field Name	Description
1	7	*Reader No	The Bar Code Reader No (i.e. PDT0100)
9	10	*Project ID	The Project ID
20	7	*Badge No	The Team Leader Badge No
28	15	*Logbook No	The Logbook No
44	2	*Matrix	The Matrix Type (see PEMS for valid values)
47	9	Equipment ID	The Equipment ID
57	15	*Monitoring Location	The Monitoring Location
73	15	*Form ID	The Field Form ID
89	5	*Task Code	The Task Code
95	10	*Planning Date	The Planning Date in (MM/DD/YYYY)
106	9	*Parameter	The Field Measurement Parameter Code (see PEMS for valid values)
116	16	*Field Units	The Field Measurement Unit
133	10	*Field Result	The Field Measurement Result in numeric decimal format
144	20	*Weather	The Weather
165	20	*Comments	The Comments
186	10	Field Date	The Field Measurement Collection Date in (MM/DD/YYYY)
197	4	*Field Time	The Field Measurement Collection Time in (HHMM)

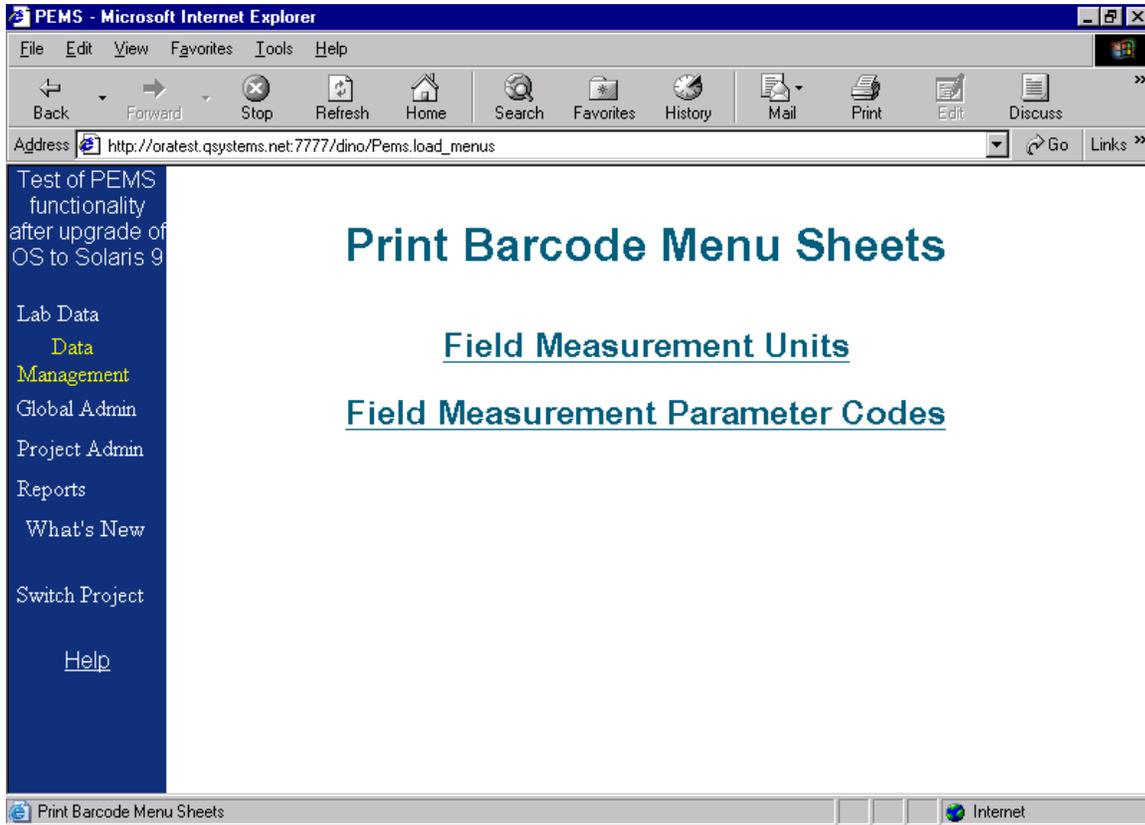
* Required fields

SAMPLE.DAT

Beginning Column Position	Length	Field Name	Description
1	7	*Reader No	The Bar Code Reader No (i.e. PDT0100)
9	10	*Project ID	The Project ID
20	7	*Badge No	The Team Leader Badge No
28	15	*Logbook No	The Logbook No
44	2	*Matrix	The Matrix Type (see PEMS for valid values)
47	9	Equipment ID	The Equipment ID
57	15	*Monitoring Location	The Monitoring Location
73	15	*Sample ID	The Sample ID (for each container)
89	15	Lot No	The Certified Lot No
105	10	Top Depth	The Top Depth in numeric decimal format
116	10	Bottom Depth	The Bottom Depth in numeric decimal format
127	16	Depth Units	The Depth Units
144	10	*Sample Date	The Sample Date in (MM/DD/YYYY)
155	4	*Sample Time	The Sample Time in (HHMM)

* Required fields

Print Bar Code Menu Sheets



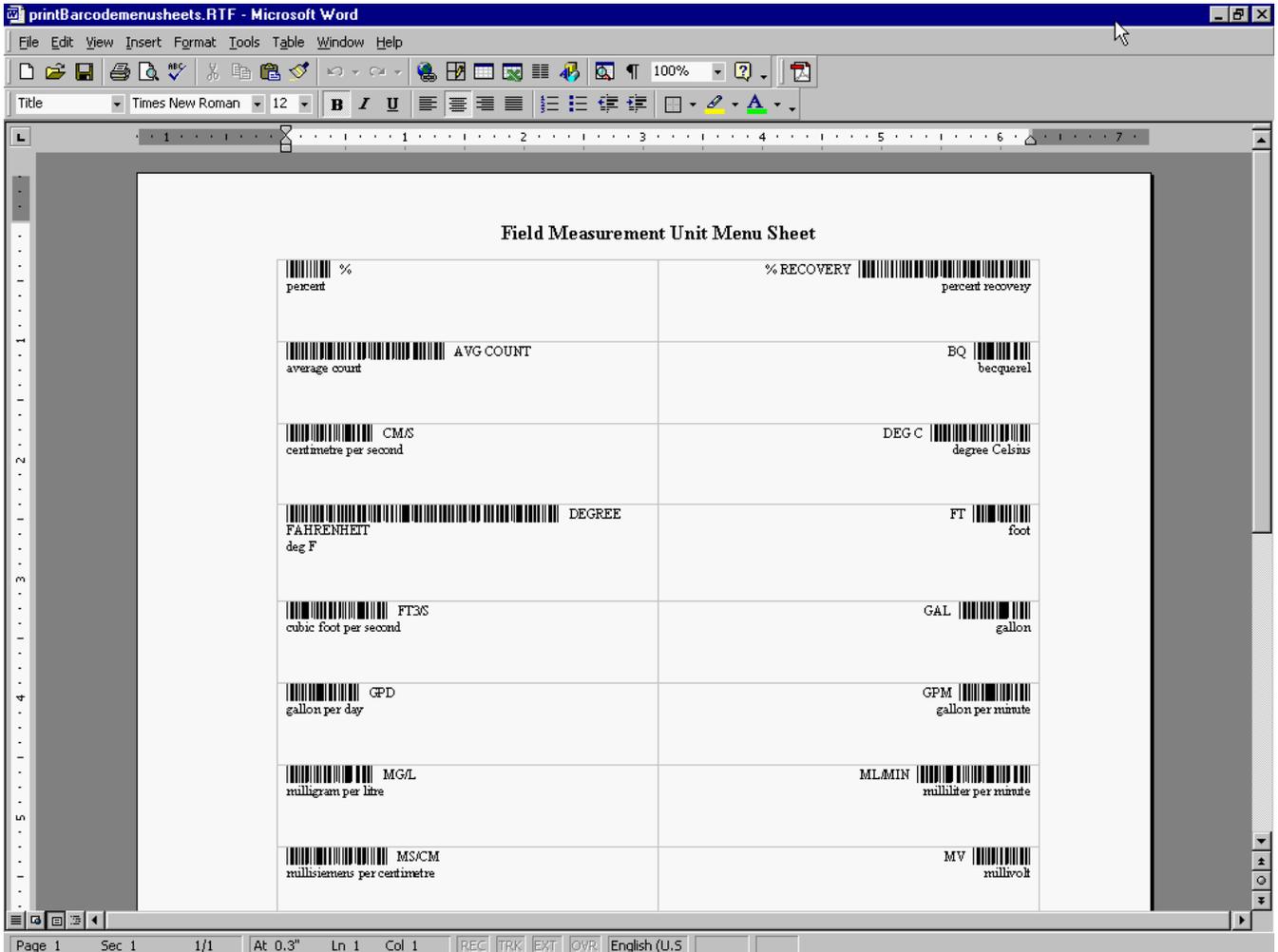
PEMS allows data entry via mobile computing devices. A barcode reader is a programmable data entry tool. It scans barcodes as well as allowing keyed data entry. The benefit is faster speed and accuracy in data entry.

After the sample information has been collected and entered into barcode reader, the data file is downloaded to a PC. The data file can then be uploaded and saved into PEMS. This screen allows the user to generate Field Measurement Units and Field Measurement Parameter Codes using barcode format.

By clicking *Field Measurement Units*, it displays all existing Field Measurement Units in barcode format.

By clicking *Field Measurement Parameter Codes*, it displays the Select Parameters to Print Screen.

Sample of Field Measurement Unit Menu Sheet



All existing field measurement units in barcode font are printed in Microsoft Word Rich Text Format (.rtf).

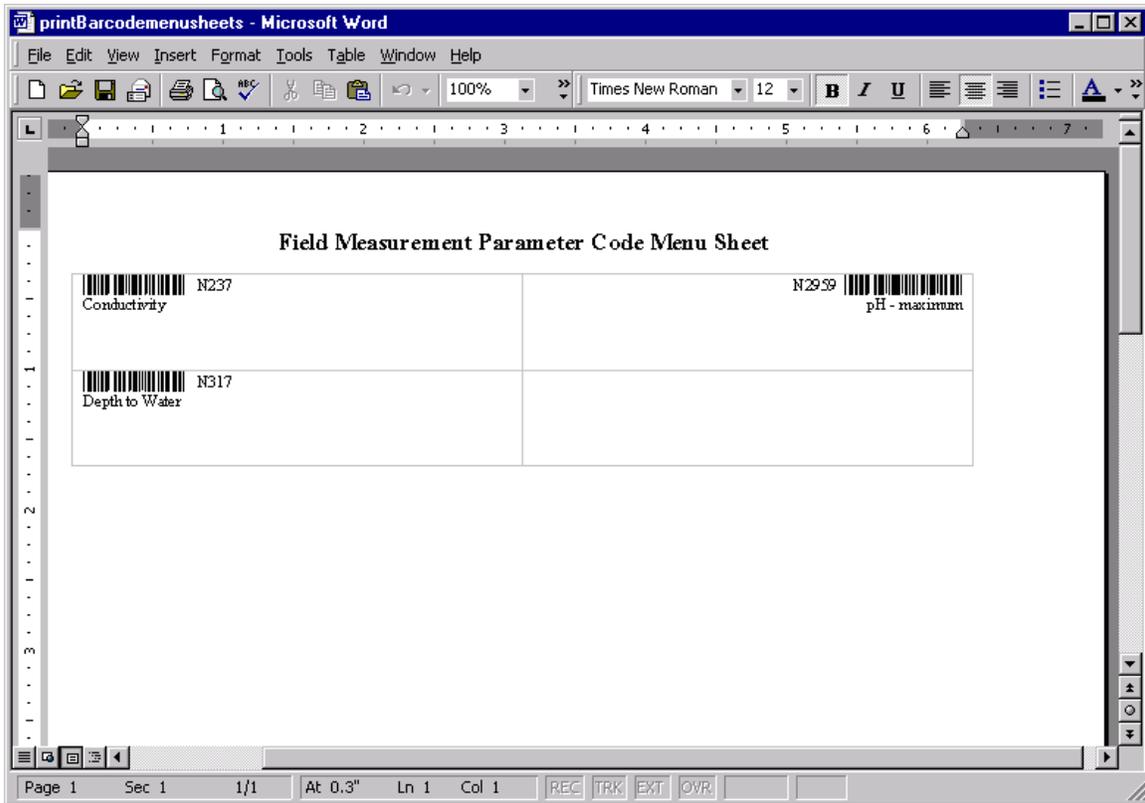
Select Parameters to Print Screen

The screenshot shows a Netscape browser window displaying the 'Select Parameters to Print' screen. The browser's address bar shows the URL: https://www-pems.bechteljacobs.org/qpems/qpems/Pems.load_menus. The page title is 'PEMS - Netscape'. The main content area features a blue sidebar on the left with navigation links: 'Instruction Manual Project', 'Lab Data', 'Data Management', 'Global Admin', 'Project Admin', 'Reports', 'What's New', 'Switch Project', and 'Help'. The main content area has a title 'Select Parameters to Print' and a message: 'Selected Print Sequence Must Be Unique Number' with a red error icon. Below this is a red button that says 'CLICK HERE TO CONTINUE'. A table lists parameters with checkboxes for selection.

Print Sequence	Parameter
<input type="checkbox"/>	18496258 -- Sulfide
<input type="checkbox"/>	N1036 -- Turbidity
<input type="checkbox"/>	N1218 -- Volume
<input type="checkbox"/>	N237 -- Conductivity
<input type="checkbox"/>	N271 -- Density Free Flow
<input type="checkbox"/>	N2959 -- pH - maximum
<input type="checkbox"/>	N2960 -- pH - minimum
<input type="checkbox"/>	N317 -- Depth to Water
<input type="checkbox"/>	N328 -- Dissolved Oxygen
<input type="checkbox"/>	N704 -- pH
<input type="checkbox"/>	N908 -- Temperature
<input type="checkbox"/>	NS021 -- Depth
<input type="checkbox"/>	NS092 -- Purge Rate during Well Purging
<input type="checkbox"/>	NS093 -- Purge Rate during Sampling
<input type="checkbox"/>	NS1434 -- Flux = Flow x Concentration
<input type="checkbox"/>	NS1854 -- Flow-instantaneous
<input type="checkbox"/>	NS1855 -- Flow-instantaneous

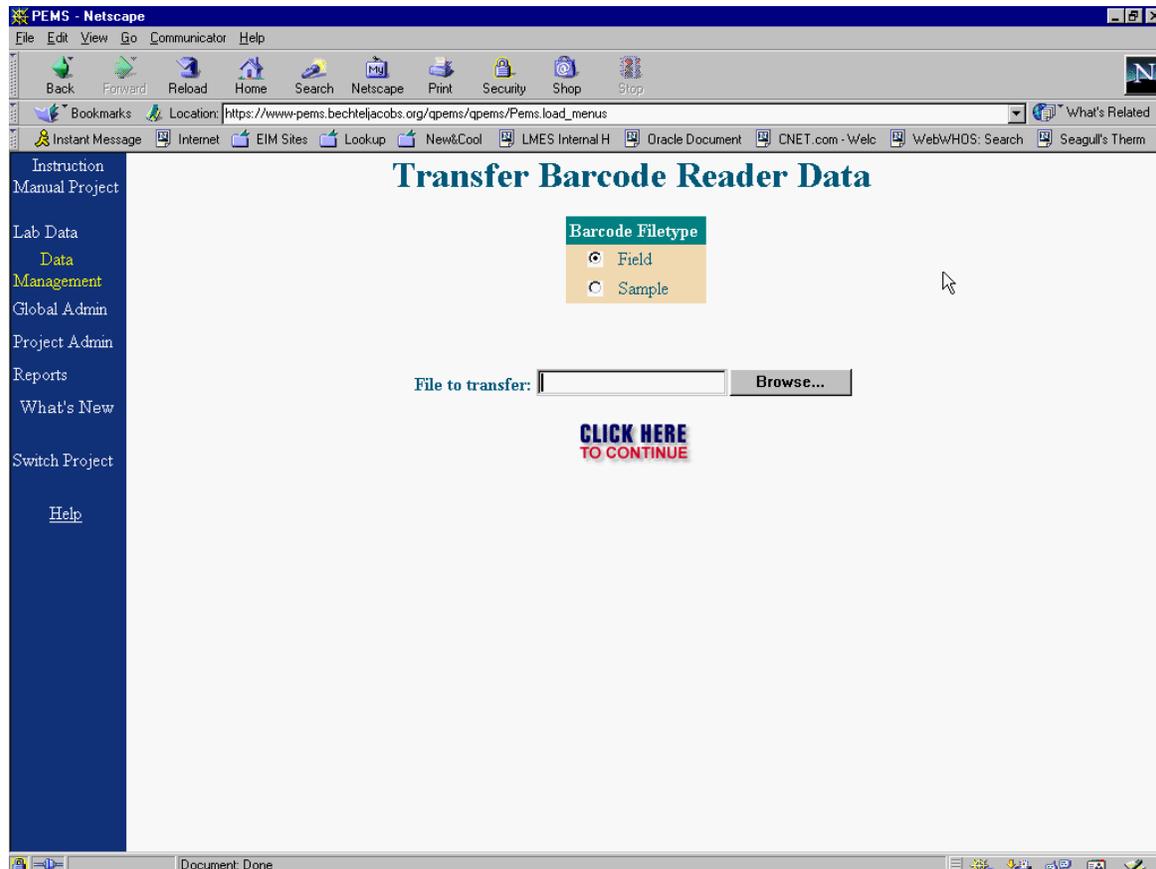
This screen allows the user to enter a unique order sequence for each selected parameter code to be printed in barcode format.

Sample of Field Measurement Parameter Code Menu Sheet



All existing field measurement parameter codes in barcode font are printed in Microsoft Word Rich Text Format (.rtf).

Transfer Barcode Reader Data Main Screen



This screen allows the user to transfer the data file into PEMS. The user may enter the file name in the input field or click the *Browse* button to locate the data file. By selecting a barcode filetype (Field / Sample), entering the data filename and clicking the Continue icon, it activates the transfer action and validates the data in the file.

If there is any error, it displays the Consistency Check Barcode Data Screen.

If it passes the data validation process, it displays “Save data to temporary database table” message, create records in staging area and displays the Loading Barcode Sample Data Screen or Loading Barcode Field Data Screen depending on the selected filetype.

Consistency Check Barcode Data Screen

PEMS - Netscape

File Edit View Go Communicator Help

Back Forward Reload Home Search Netscape Print Security Shop Stop

Location: https://www.pems.bechteljacobs.org/apems/apems/Pems.load_menus

Instant Message Internet EIM Sites Lookup New&Cool LMES Internal H Oracle Document CNET.com - Welc WebWHOS: Search Seagull's Them

Instruction Manual Project

Lab Data

Data Management

Global Admin

Project Admin

Reports

What's New

Switch Project

Help

Consistency Check Barcode Data

File ID: B0016616

Main Menu

File: C:\Working\B0039412.html

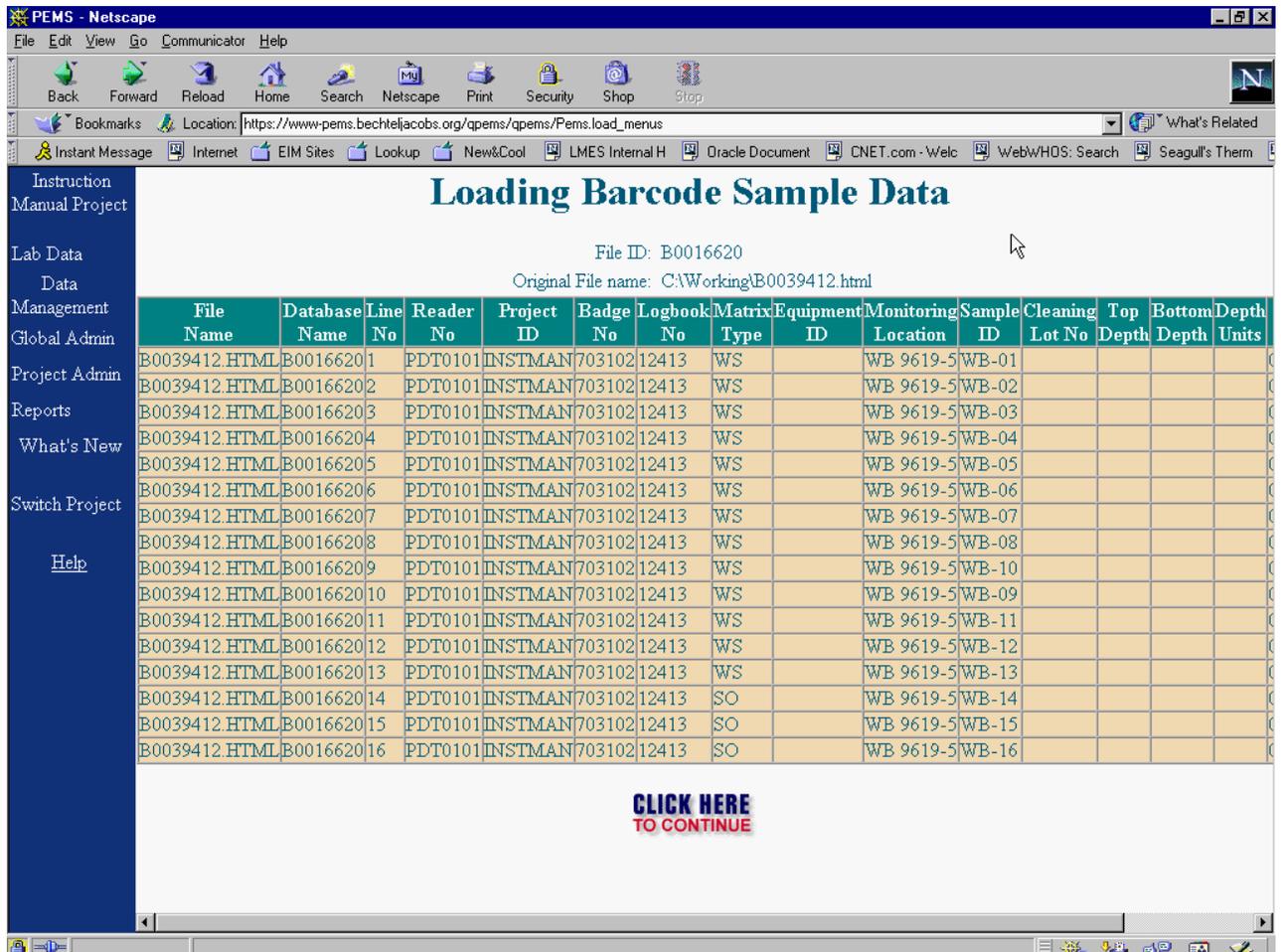
You have errors that must be corrected

Record #	Field	Error
1	DATA FORMAT	This is a Sample file format, load as Sample file

Document: Done

The system runs checks on the data so that the user can be notified immediately if there are errors in the data.

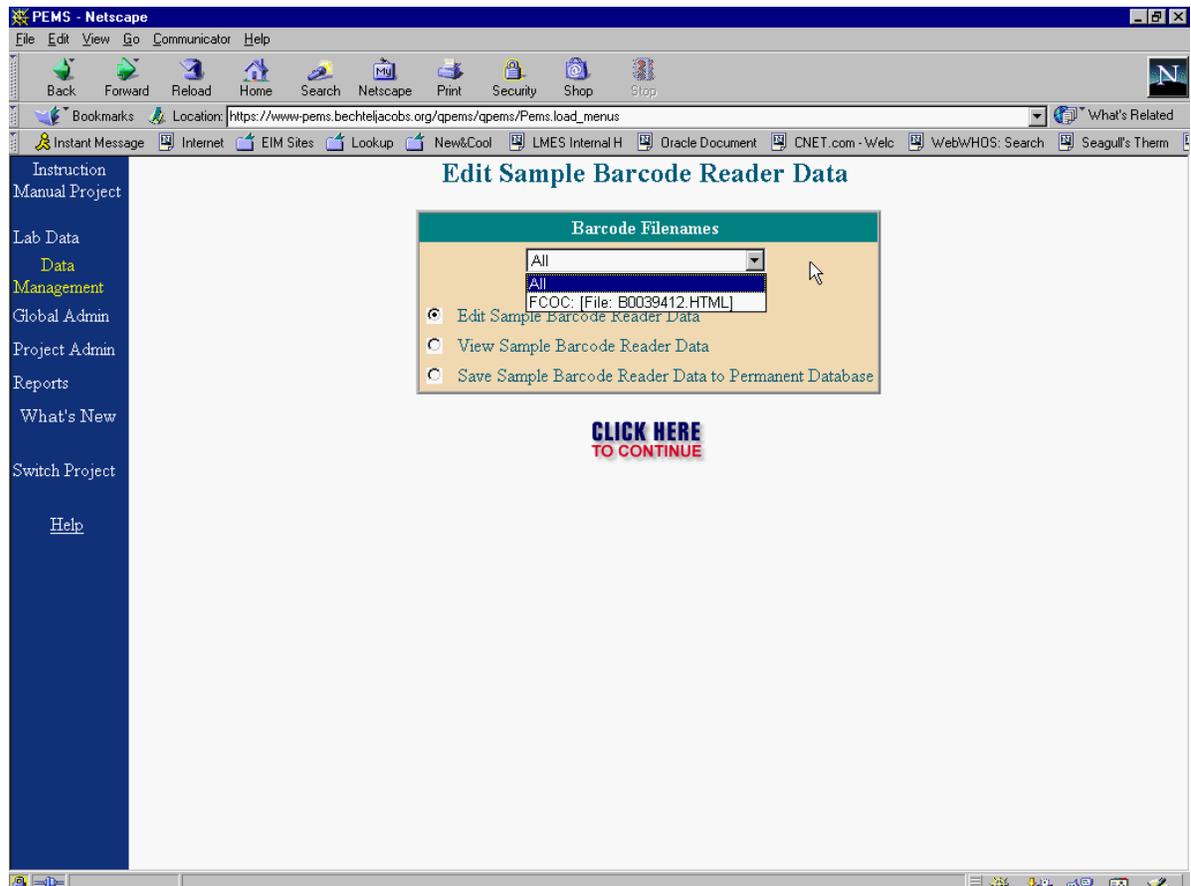
Loading Barcode Sample Data Screen



This screen displays the data when they are successfully transferred.

By clicking the Continue icon, it returns to the Transfer Barcode Reader Data Main Screen.

Edit Sample Barcode Reader Data Main Screen



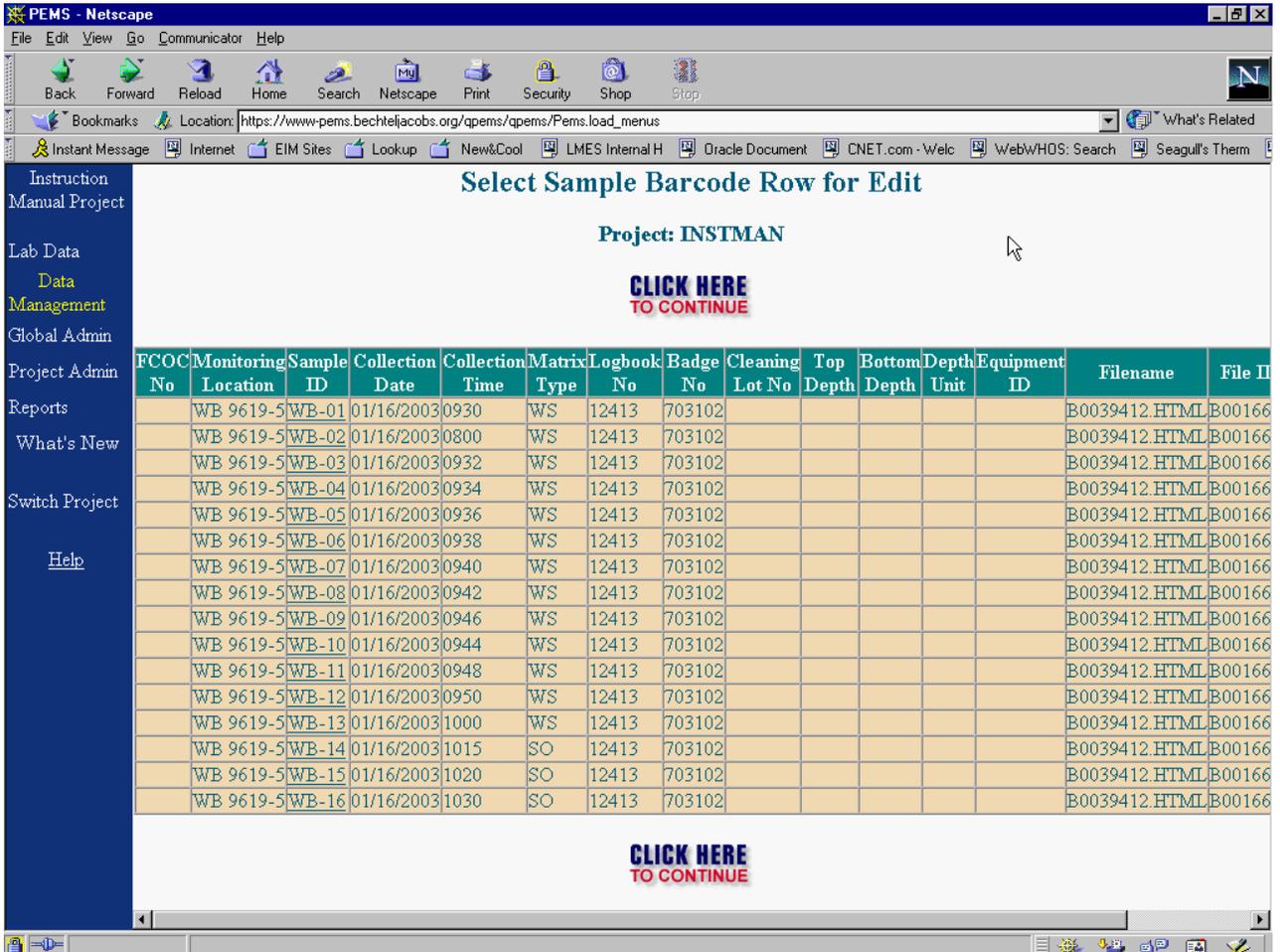
This screen allows the user to edit, view or save the Sample Barcode Reader Data for all or selected filename.

By clicking the Continue icon after selecting the filename and Edit Sample Barcode Reader Data, it displays the Select Sample Barcode Row for Edit Screen.

By clicking the Continue icon after selecting the filename and View Sample Barcode Reader Data, it displays the View Sample Barcode Reader Data Screen.

By clicking the Continue icon after selecting the filename and Save Sample Barcode Reader Data to Permanent Database, it checks for data validation and displays the Edit Sample Barcode Data Screen with a error message. If there is no error, it displays the Save Sample Data Screen.

Select Sample Barcode Row for Edit Screen



The screen displays the successfully transferred barcode data. Each row to be edited may be chosen separately.

By clicking the individual Sample Id, it displays the Edit Sample Barcode Reader Data (Edit Screen).

By clicking the Continue icon, it returns to the Edit Sample Barcode Reader Data Main Screen.

Edit Sample Barcode Reader Data (Edit Screen)

Edit Sample Barcode Reader Data

Project ID	Filename	File ID	Line
INSTMAN	B0039412.HTML	B0016620	1

Delete Record

Required fields are marked with *

Reader No:	PDT0101 *
Team Leader:	703102(Eckerman, Mike) *
Logbook No:	12413 *
Matrix Type:	WS
Equipment ID:	None
Monitoring Location:	26-005
Sample ID:	WB-01 [ML= FCOC=] *
Cleaning Lot:	
Top Depth:	
Bottom Depth:	
Depth Units:	None
Sample Date(num/dd/yyyy):	01/16/2003 *
Sample Time(HHMM):	0930 *

CLICK HERE TO CONTINUE

This screen allows the user to edit sample information and it is stored in the staging area.

The *Delete Record* button will remove the current row from the staging area. A pop-up window with a message will confirm the action. It returns to Select Sample Barcode Row for Edit Screen.



By clicking the Continue icon, it returns to Select Sample Barcode Row for Edit Screen.

View Sample Barcode Reader Data Screen

The screenshot shows a Microsoft Internet Explorer browser window titled "PEMS - Microsoft Internet Explorer". The address bar contains the URL "http://oratest.qsystems.net:7777/dino/Pems.load_menus". The page content is titled "View Sample Barcode Reader Data". On the left, there is a blue sidebar with the following menu items: ETP, Integrated Water Quality Program (FY 1999), Lab Data, Data Management, Global Admin, Project Admin, Reports, What's New, Switch Project, and Help. The main content area features a table with the following data:

FCOC	Monitoring Location	Sample ID	Collection Date	Collection Time	Matrix Type	Logbook No	Badge No	Cleaning Lot No
IWQP02777	TMWV-007	E00184	08/29/2001	1630	WG	12327_07	024059	8335080

Below the table, there are two "CLICK HERE TO CONTINUE" buttons. The browser status bar at the bottom shows "Continue" and "Internet".

This screen displays Sample Barcode Reader Data for the selected filename.

By clicking the Continue icon, it returns to the Edit Sample Barcode Reader Data Main Screen.

Edit Sample Barcode Reader Data Screen (Error Message)

The screenshot shows a Netscape browser window titled "PEMS - Netscape" with the address bar displaying "https://www-pems.bechteljacobs.org/qpems/qpems/Pems.load_menus". The browser interface includes a menu bar (File, Edit, View, Go, Communicator, Help) and a toolbar with icons for Back, Forward, Reload, Home, Search, Netscape, Print, Security, Shop, and Stop. A bookmarks bar is visible below the address bar.

The main content area displays a table with the following data:

Project ID	Filename	File ID	Line
INSTMAN	B0039412.HTML	B0016620	1

Below the table is a "Delete Record" button. A message states "Required fields are marked with" followed by a red circle with a white exclamation mark icon.

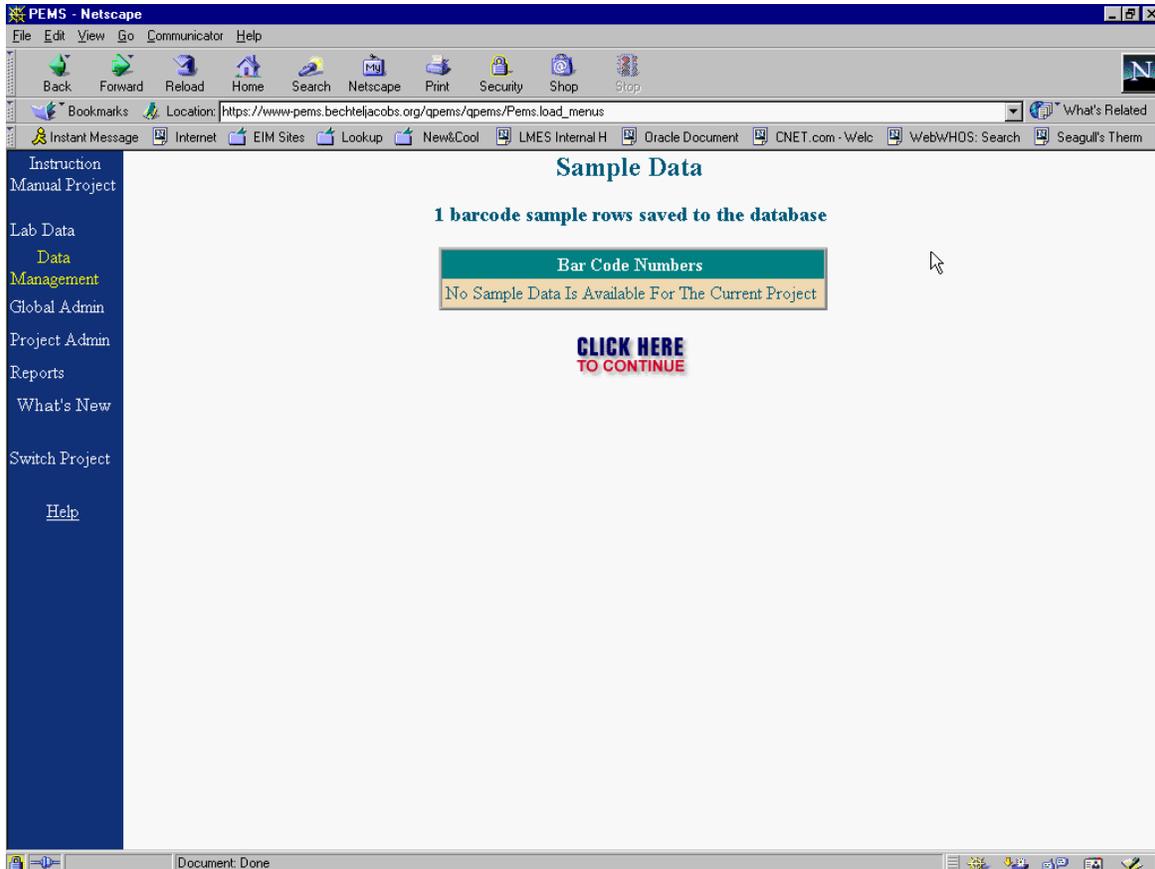
The data entry form below contains the following fields:

- Reader No: PDT0101 (marked with error icon)
- Team Leader: 703102(Eckerman, Mike) (marked with error icon)
- Logbook No: 12413 (marked with error icon)
- Matrix Type: WS
- Equipment ID: None
- Monitoring Location: 26-005
- Sample ID: WB-01 [ML= FCOC=] (marked with error icon)
- Cleaning Lot: (empty)
- Top Depth: (empty)
- Bottom Depth: (empty)
- Depth Units: None
- Sample Date(mm/dd/yyyy): 01/16/2003 (marked with error icon)
- Sample Time(HHMM): 0930 (marked with error icon)

A red error message is displayed below the Sample ID field: "A sample must be planned before applying barcode results". At the bottom of the form area, there is a "CLICK HERE TO CONTINUE" button.

The system will display the corrections that should be made to the data before it can be saved into the database.

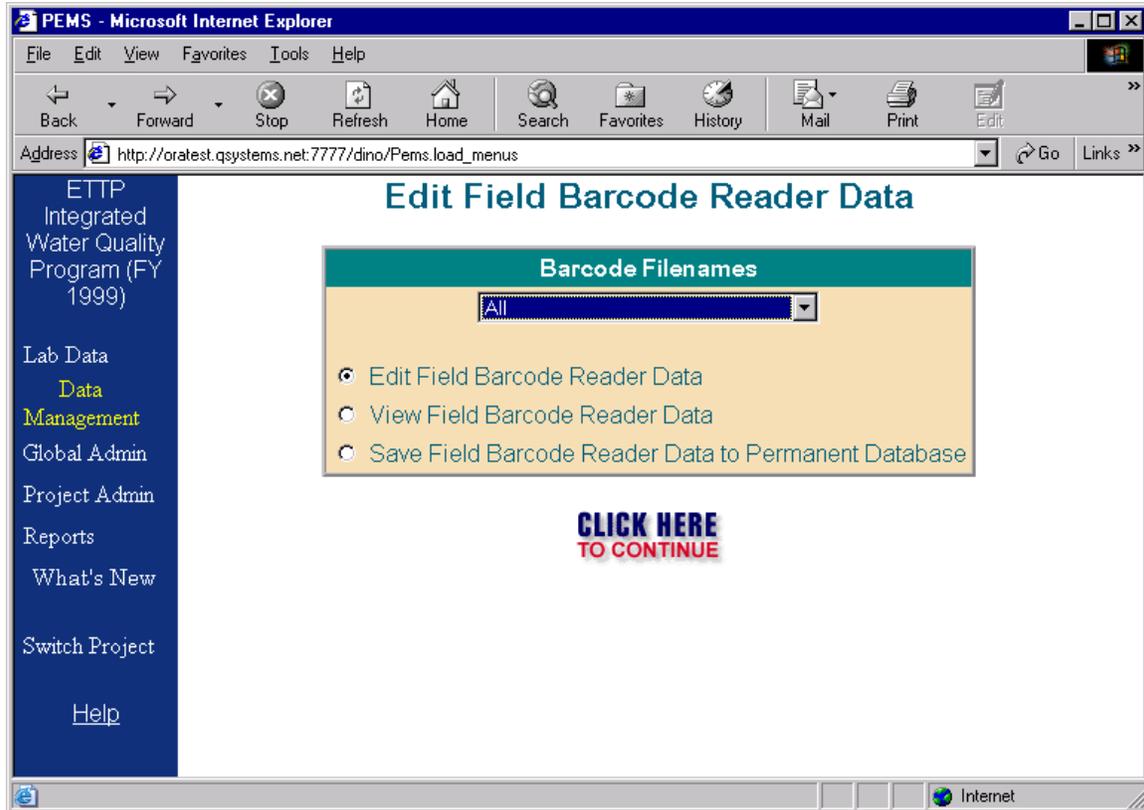
Save Sample Data Screen



When the barcode data is successfully loaded, the system will indicate that it has been saved to the PEMS database

By clicking the Continue icon, it returns to the Edit Sample Barcode Reader Data Main Screen.

Edit Field Barcode Reader Data Main Screen



This screen allows the user to edit, view or save the Field Barcode Reader Data for all or selected filename.

By clicking the Continue icon after selecting the filename and Edit Field Barcode Reader Data, it displays the Select Field Barcode Row for Edit Screen.

By clicking the Continue icon after selecting the filename and View Field Barcode Reader Data, it displays the View Field Barcode Reader Data Screen.

By clicking the Continue icon after selecting the filename and Save Field Barcode Reader Data to Permanent Database, it checks for data validation and displays the Edit Field Barcode Data Screen with a error message. If there is no error, it displays the Save Field Data Screen.

Select Field Barcode Row for Edit Screen

The screenshot shows a web browser window with the following content:

Navigation Menu (Left):

- ETTP Integrated Water Quality Program (FY 1999)
- Lab Data
- Data Management
- Global Admin
- Project Admin
- Reports
- What's New
- Switch Project
- Help

Main Content:

Select Field Barcode Row for Edit

Project: IWQP-ETTP

CLICK HERE TO CONTINUE

Form ID	Task Code	Monitoring Location	Collection Date	Collection Time	Matrix Type	Parameter Name	Field Result	Unit
12327_21	ETTP1	TMW-007	08/29/2001	1630	WG	Conductivity	10	UMHO/M
12327_21	ETTP1	TMW-007	08/29/2001	1630	WG	Dissolved Oxygen	2	PPM

CLICK HERE TO CONTINUE

At the bottom of the browser window, there is a 'Continue' button and an 'Internet' status indicator.

The screen displays the successfully transferred field barcode data. Each row to be edited may be chosen separately.

By clicking the individual Form Id, it displays the Edit Field Barcode Reader Data (Edit Screen).

By clicking the Continue icon, it returns to the Edit Field Barcode Reader Data Main Screen.

Edit Field Barcode Reader Data (Edit Screen)

PEMS - Microsoft Internet Explorer

Address: http://oratest.qsystems.net:7777/dino/Pems.load_menus

Edit Field Barcode Reader Data

Project ID	Filename	File ID	Line
WQP-ETTP	FIELD.DAT	B0032735	1

Delete Record

Required fields are marked with

Reader No: PDT0100

Team Leader: 999999

Logbook No: 12327-08

Matrix Type: WG [WATER, Groundwater]

Equipment ID: ETTP1

Monitoring Location/Task: TMW-007 / ETTP1

Form ID: 12327_21

Planning Date: [blank]

This screen allows the user to edit sample information and it is stored in the staging area.

The *Delete Record* button will remove the current row from the staging area. A pop-up window with a message will confirm the action. It returns to Select Field Barcode Row for Edit Screen.



By clicking the Continue icon, it returns to Select Field Barcode Row for Edit Screen.

View Field Barcode Reader Data Screen

The screenshot shows a web browser window with the following content:

- Browser Title:** PEMS - Microsoft Internet Explorer
- Address Bar:** http://oratest.qsystems.net:7777/dino/Pems.load_menus
- Page Title:** View Field Barcode Reader Data
- Navigation Menu (Left):**
 - ETTP Integrated Water Quality Program (FY 1999)
 - Lab Data
 - Data Management
 - Global Admin
 - Project Admin
 - Reports
 - What's New
 - Switch Project
 - Help
- Main Content:**

CLICK HERE TO CONTINUE

Form ID	Task Code	Monitoring Location	Collection Date	Collection Time	Matrix Type	Parameter Name	Field Result	Unit
12327_21	ETTP1	TMW-007	08/29/2001	1630	WG	Conductivity	10	UMHO/4
12327_21	ETTP1	TMW-007	08/29/2001	1630	WG	Dissolved Oxygen	2	PPM

CLICK HERE TO CONTINUE
- Status Bar:** Continue, Internet

This screen displays Field Barcode Reader Data for the selected filename.

By clicking the Continue icon, it returns to the Edit Field Barcode Reader Data Main Screen.

Edit Field Barcode Reader Data (Error Message)

Edit Field Barcode Reader Data

Fix the fields indicated below.

Project ID	Filename	File ID	Line
WQP-ETTP	FIELD.DAT	B0032735	1

Delete Record

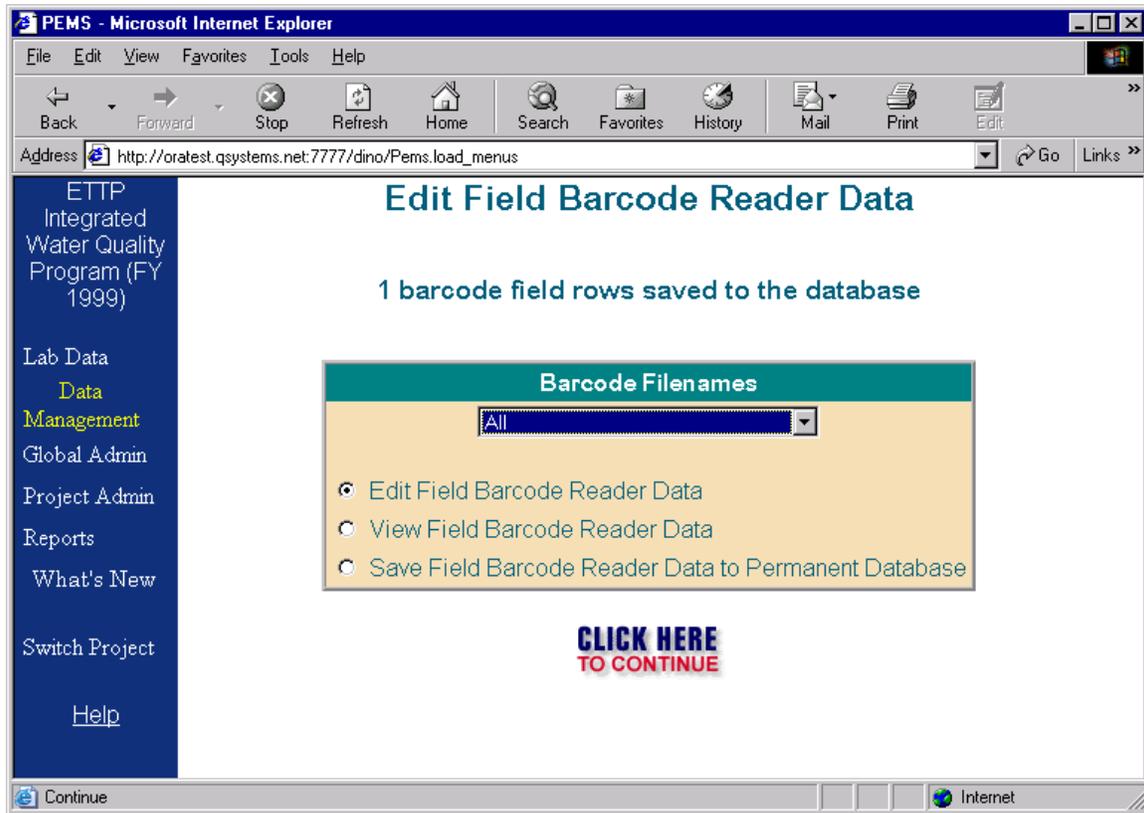
Required fields are marked with

Reader No:	PDT0100
Team Leader:	999999() ↑ 999999 is not defined
Logbook No:	12327-08
Matrix Type:	WG [WATER, Groundwater]
Equipment ID:	ETP1 ↑ ETP1 is not defined
Monitoring Location/Task:	TMW-007 / ETP1 ↑ This Task_code/MI_id code combination does not exist: ETP1/TMW-007

Continue Internet

The system will display the corrections that should be made to the data before it can be saved into the database.

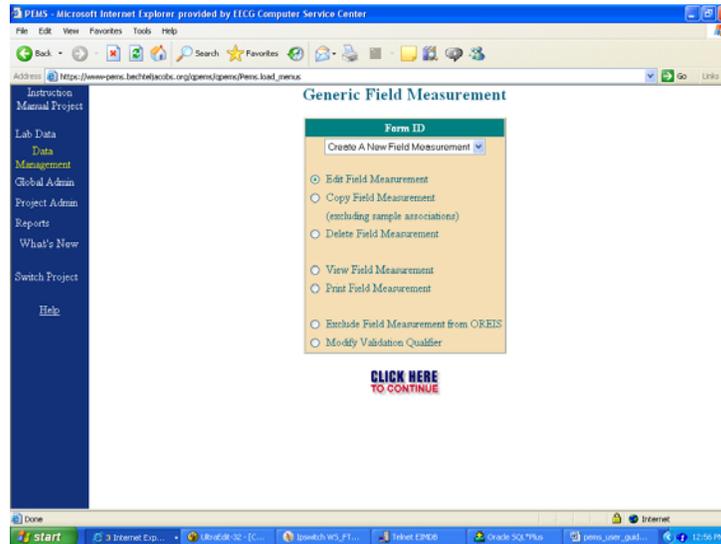
Save Field Data Screen



When the barcode data is successfully loaded, the system will indicate that it has been saved to the PEMS database

By clicking the Continue icon, it returns to the Edit Field Barcode Reader Data Main Screen.

Generic Field Measurements Screen



This screen allows the user to create, edit, copy, delete, view, print or exclude Field Measurement. It can also create new or management Field Measurement template and modify validation qualifier.

By clicking the Continue icon after selecting *Create A New Field Measurement* and *Edit Field Measurement* button, it displays the Edit Generic Field Measurement Screen.

By clicking the Continue icon after selecting a Form Id and *Edit Field Measurement* button, it displays the Edit Generic Field Measurement Screen.

By clicking the Continue icon after selecting a Form Id and *Copy Field Measurement* button, it pops up a user prompt screen to ask for a new form name.

By clicking the Continue icon after selecting a Form Id and *Delete Field Measurement* button, it deletes all Field Measurement information for the selected Form Id.

By clicking the Continue icon after selecting a Form Id and *View Field Measurement* button, it displays the Field Measurement information for the selected Form Id.

By clicking the Continue icon after selecting a Form Id and *Print Field Measurement* button, it generates the Field Measurement information in Microsoft Word Rich Text Format (.rtf) for the selected Form Id.

By clicking the Continue icon after selecting a Form Id and *Exclude Field Measurement from OREIS* button, it displays the Exclude Field Measurement from OREIS Screen.

By clicking the Continue icon after selecting a Form Id and *Modify Validation Qualifier* button, it displays the Modify Validation Qualifier Screen.

Edit Generic Field Measurement Screen

PEMS - Microsoft Internet Explorer provided by EECG Computer Service Center

File Edit View Favorites Tools Help

Address https://www-pems.bchteljacobs.org/qpens/qpens/Pems.load_menus

Edit Generic Field Measurement

Required fields are marked with +

CLICK HERE TO CONTINUE

Form ID:	<input type="text" value="TEXT234"/>	+
Configuration Control:	<input type="text" value="No"/>	+
Monitoring Location/Task:	<input type="text" value="BCK 9.47 / TEST"/>	+
Begin Date(mm/dd/yyyy):	<input type="text" value="04/15/2006"/>	+
Field Logbook Number:	<input type="text"/> <input type="button" value="Search"/>	
Matrix Type:	<input type="text" value="WS - Surface Water"/>	+
Team Leader:	<input type="text" value="No Team Leader"/>	
Weather:	<input type="text" value="test weather"/>	
Comments:	<input type="text" value="test comments"/>	

CLICK HERE TO CONTINUE

Continue

start 7 Internet Exp... UltraEdit-32 - [C... Ipswitch WS_FT... Telnet udbqa01 Telnet eimdb pems_user_guid... 2:40 PM

This screen allows the user to enter field measurement header information. The Form ID must be entered. It must be unique and have at most 15 alphanumeric characters. The configuration control option allows the field measurements to be “locked” to prevent changes. This option should be used only after data entry and review.

By clicking the Continue icon, it saves the information and moves on to display Edit Generic Field Measurement (Screen 2).

Edit Generic Field Measurement (Screen 2) (Existing Field Measurement)

The screenshot shows a Microsoft Internet Explorer browser window displaying the PEMS application. The address bar shows the URL: https://www-pems.bchteljacobs.org/qpens/qpens/Pems.load_menus. The page title is "Edit Generic Field Measurement (Screen 2)".

At the top of the page content, there is a button labeled "Add New Field Parameter(s)". Below this is the text "- OR -", followed by a button labeled "Return to Field Measurements Main Screen".

The main content area features a table with the following columns: Parameter, Numeric Result, Unit, Categorical Result, Date, Time, Equipment ID, Result Qualifier, and Comment. The table contains 13 rows of data:

Parameter	Numeric Result	Unit	Categorical Result	Date	Time	Equipment ID	Result Qualifier	Comment
Barium	-345	L		05/01/2006	1020		<	testing javascript in edit
Cadmium	121	L		05/03/2006	1000		J	update result qualifier
Cobalt	3800	PCI/L		01/01/2006	1235		U	
Depth	25	FT		05/03/2006	1200		>	update individual result qualifier
Dissolved Oxygen	10	L		05/01/2006	1230		U	
Flow Angle	12	FT		05/02/2006	1000			No comment
Free Liquids	300	L		05/01/2006	1100		>	
Hafnium	123	L		05/01/2006	1022			
Redox	200	L		05/05/2006	1020			
Sample Flow Pulse Interval	231	L		05/02/2006	1123			test javascript
Total Monthly Flow	-568	FT		01/01/2006	1235		<	
Water Flow	100	L		05/04/2006	1010			

The browser's taskbar at the bottom shows several open applications, including Internet Explorer, UltraEdit-32, Ipswitch WS_FT..., Telnet udbqa01, Telnet eimb, and pems_user_guid... The system clock shows 2:42 PM.

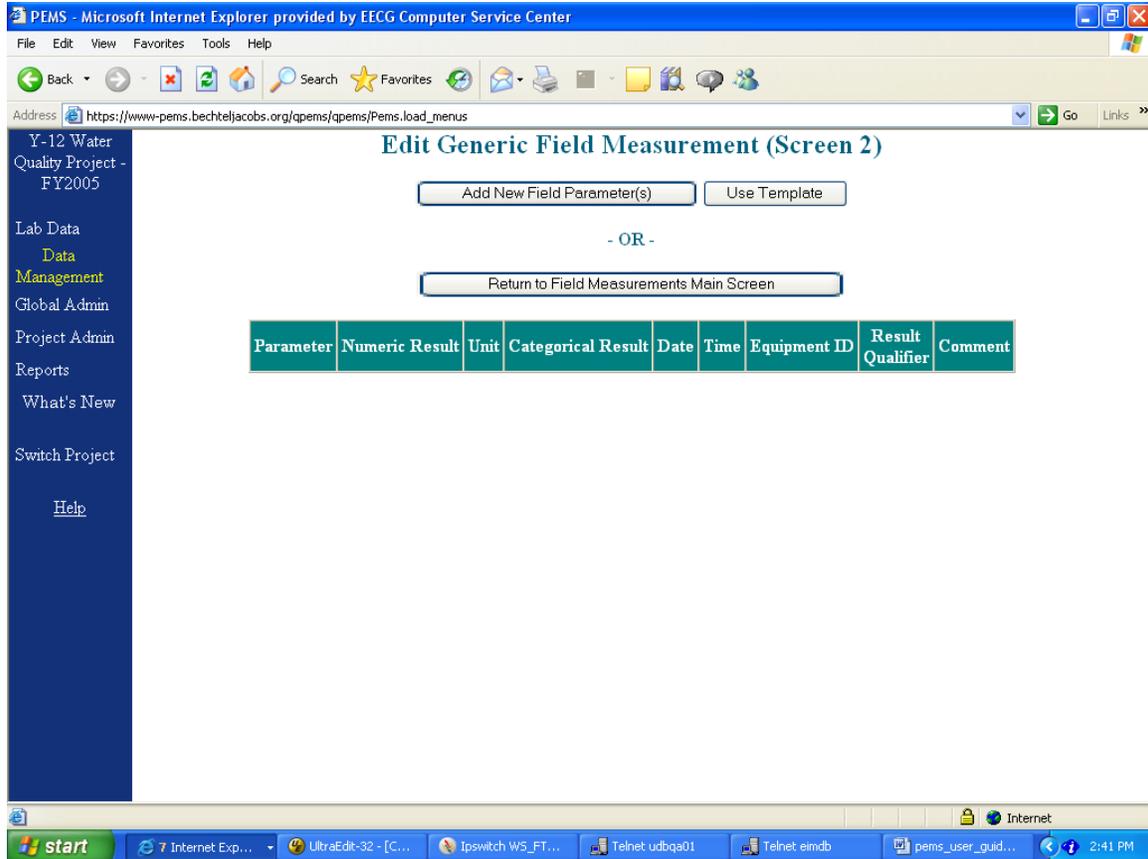
This screen allows the user to edit or add more field parameters.

By clicking on an individual parameter, it displays Edit Single Generic Field Measurement Screen.

By clicking the *Add New Field Parameter(s)* button, it displays the Add Generic Field Measurement Screen.

By clicking the *Return to Field Measurement Main Screen* button, it returns to the Generic Field Measurement Main screen.

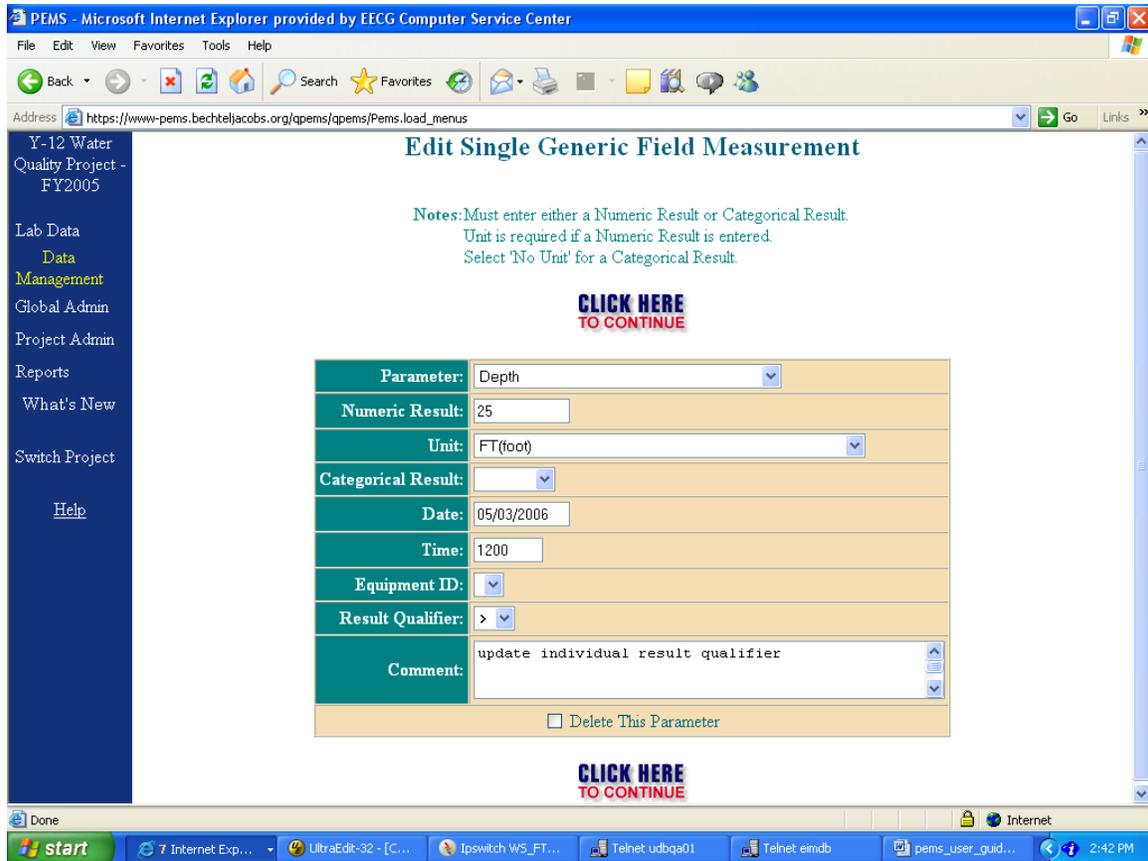
Edit Generic Field Measurement (Screen 2) (New Field Measurement)



This screen is displayed when new field measurement header information is created. It is the same screen as the previous Edit action except the additional *Use Template* button. Since it is a new field measurement, there is no existing parameter to be edited.

By clicking the *Use Template* button, it displays the Choosing Template Screen that is used to populate parameter(s) for this new field measurement.

Edit Single Generic Field Measurement Screen



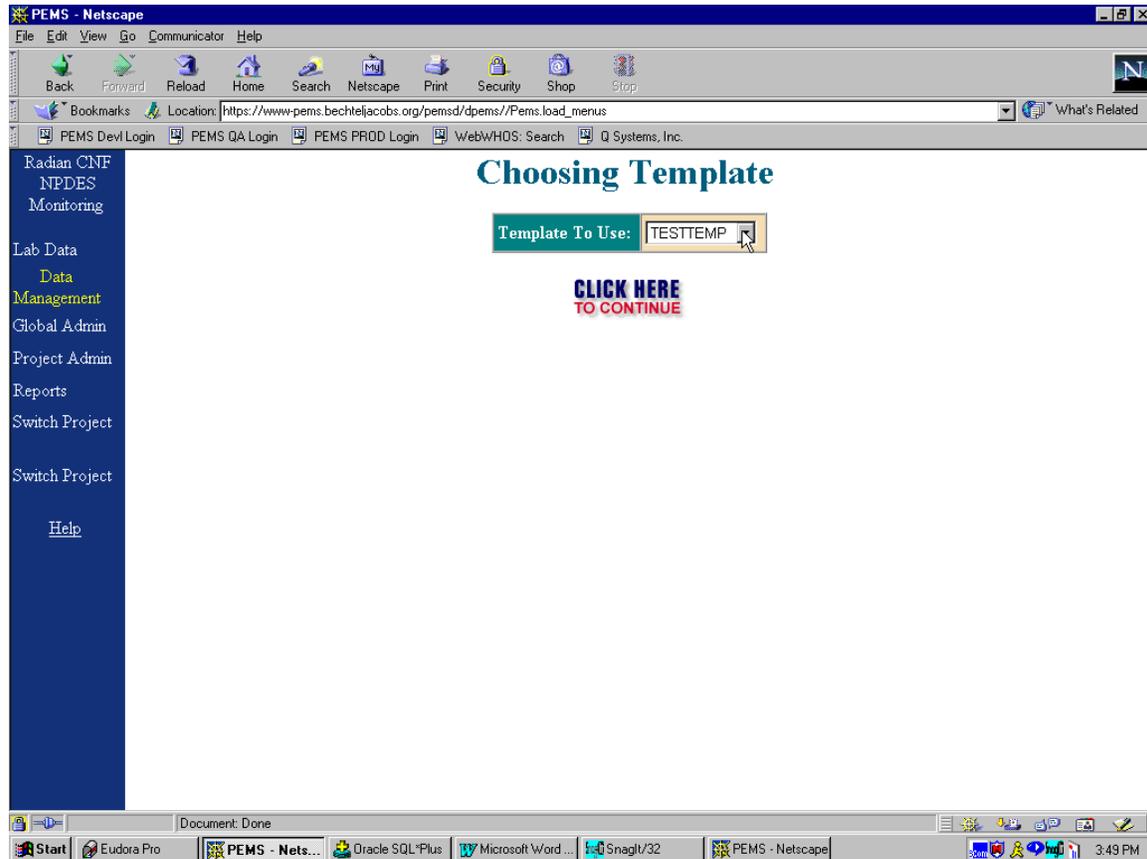
This screen allows the user to modify any parameter information. The user must enter either a Numeric Result or Categorical Result. If the Numeric Result is entered, the Unit must be entered. If the Categorical Result is entered, the Unit is not required and the Unit field must be set to 'No Unit'.

The *Delete This Parameter* checkbox is optional and allows the user to remove the current parameter if needed.

By selecting the Delete This Parameter checkbox and clicking the Continue icon, it removes the current parameter from the field measurement and returns to the Edit Generic Field Measurement (Screen 2).

By clicking the Continue icon, it updates the current parameter information and returns to the Edit Generic Field Measurement (Screen 2).

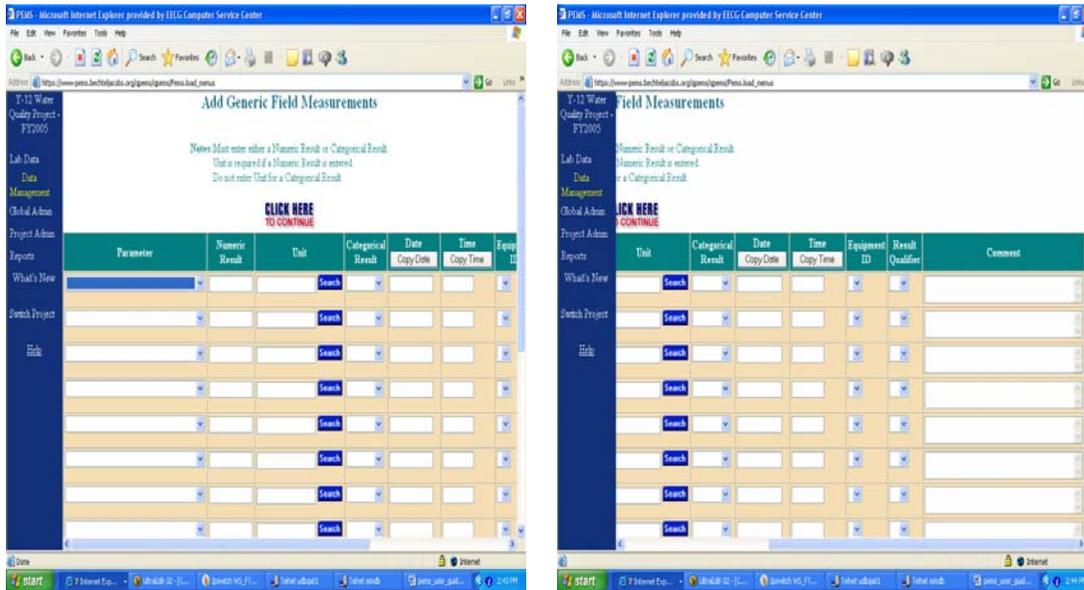
Choosing Template Screen (New Field Measurement)



This screen allows the user to select an available template that is used to populate parameter(s) for the new field measurement.

By clicking the Continue icon after selecting the template, it displays the Add Generic Field Measurements Screen with populated parameter(s) for the user to edit the information.

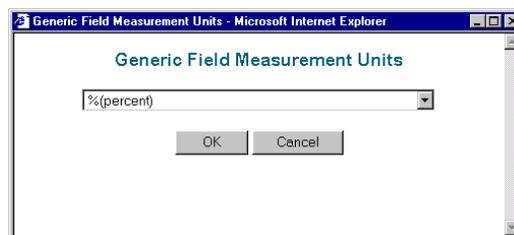
Add Generic Field Measurement Screen



This screen allows the user to add new field measurements. For each selected parameter, the user must enter either a Numerical Result or Categorical Result. If the Numerical Result is entered, the Unit must be entered. If the Categorical Result is entered, the Unit is not required.

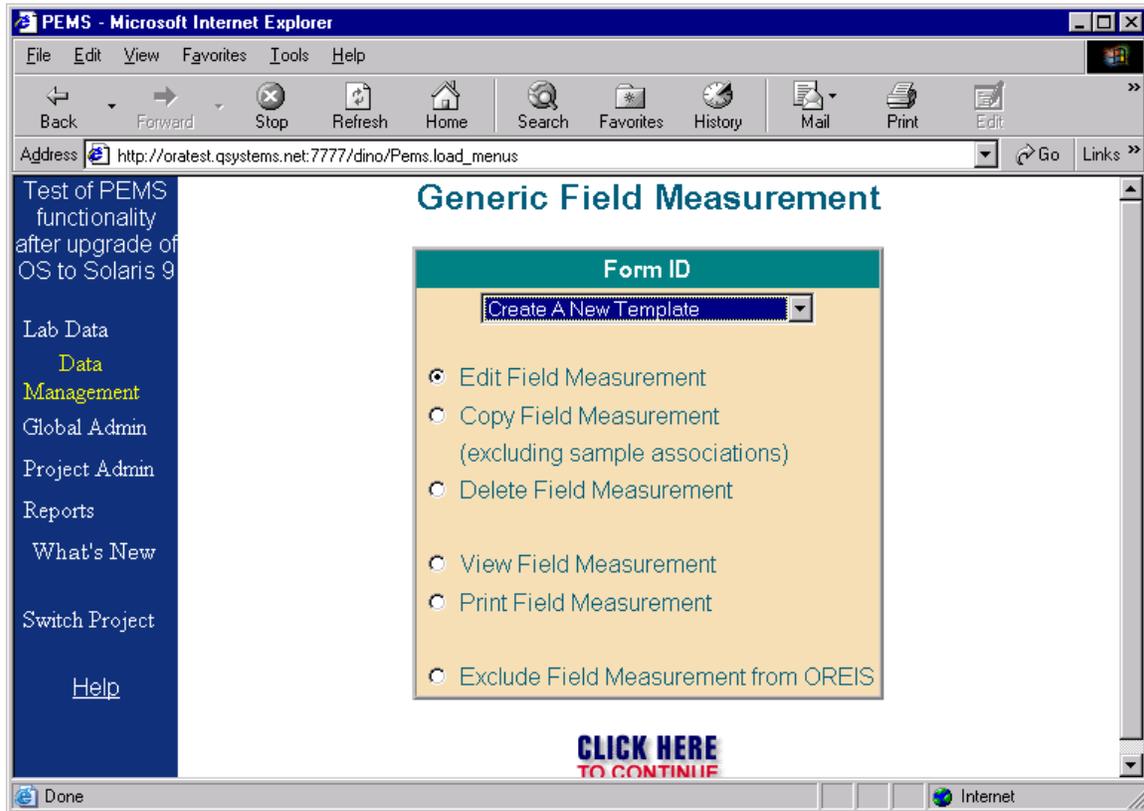
In the new field measurement with *Using Template* case, the parameter(s) and unit(s) are populated and are being displayed.

When the *Search* button is used, it displays the Generic Field Measurement Units pop-up screen. The user can select an available unit that is populated back at the appropriate unit on the Adding Generic Field Measurement Screen when the *OK* button is clicked.



By clicking the Continue icon, it saves the parameter(s) and returns to Edit Generic Field Measurement (Screen2).

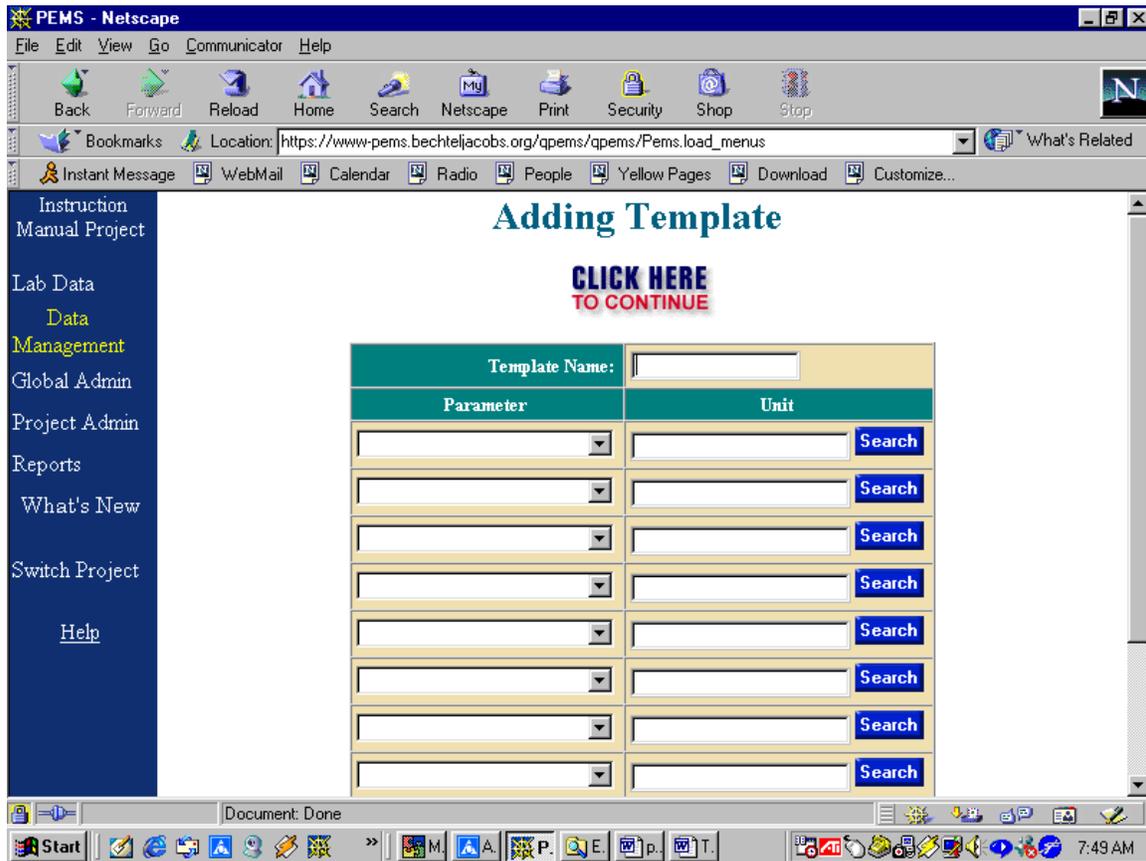
Create a New Template



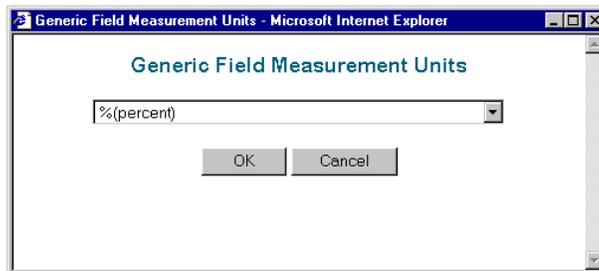
A template can be created to speed up data entry for a standard set of field measurement parameters.

By clicking the Continue icon after selecting *Create A New Template* and *Edit Field Measurement* button, it displays the Adding Template Screen.

Adding Template Screen

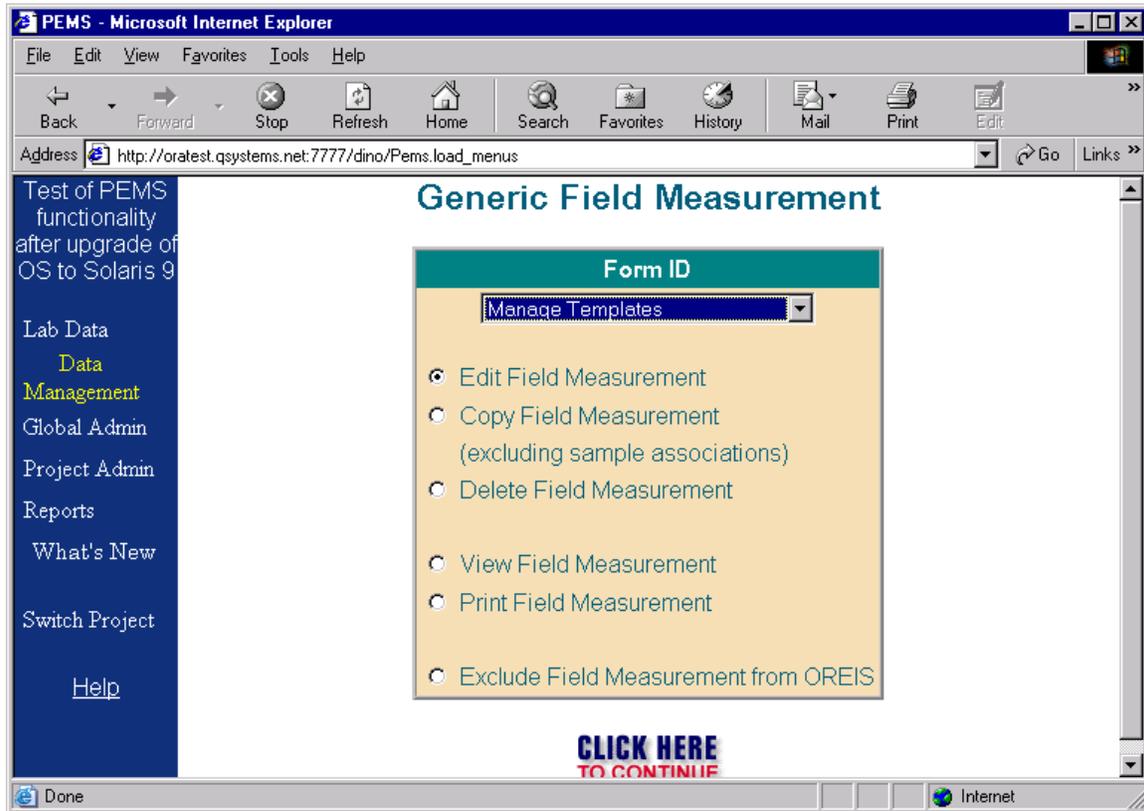


This screen allows the user to enter the template name, parameters and units. When the *Search* button is used, it displays the Generic Field Measurement Units pop-up screen. The user can select an available unit that is populated back at the appropriate unit on the Adding Template Screen when the *OK* button is clicked.



By clicking the Continue icon, it saves the new template information for the current project and returns to Generic Field Measurement Main Screen.

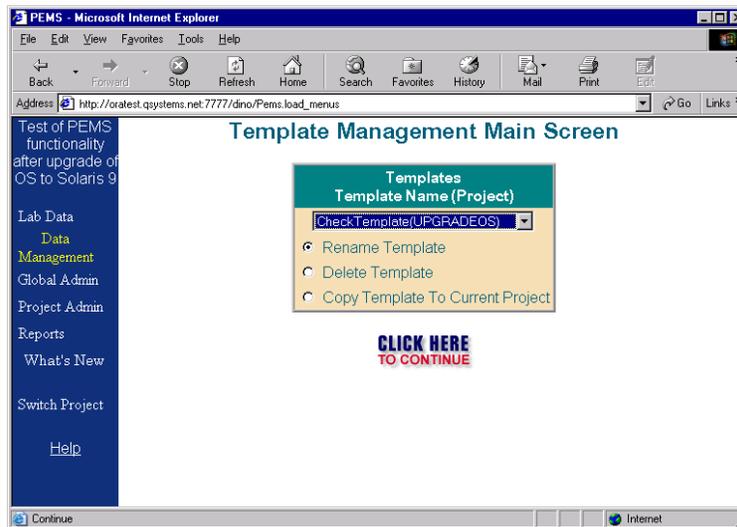
Manage Templates



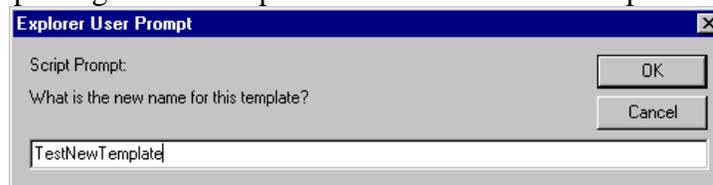
This function is used for template management.

By clicking the Continue icon after selecting *Manage Templates* and *Edit Field Measurement* button, it displays the Template Management Main Screen.

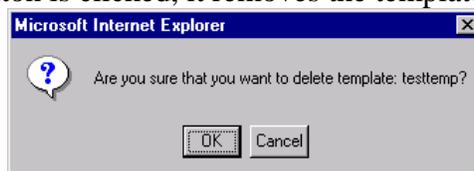
Template Management Main Screen



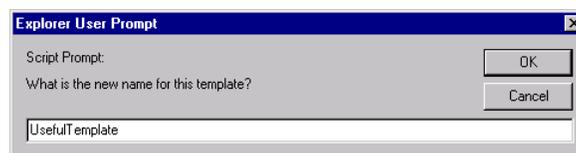
By clicking the Continue icon after selecting a template name belong to the current project and *Rename Template* button, it displays a pop-up screen for entering a new template name. The template name must have at most 15 alphanumeric characters. When the OK button is clicked, it is replaced with the new template name and displays a message about replacing the old template name with the new template name.



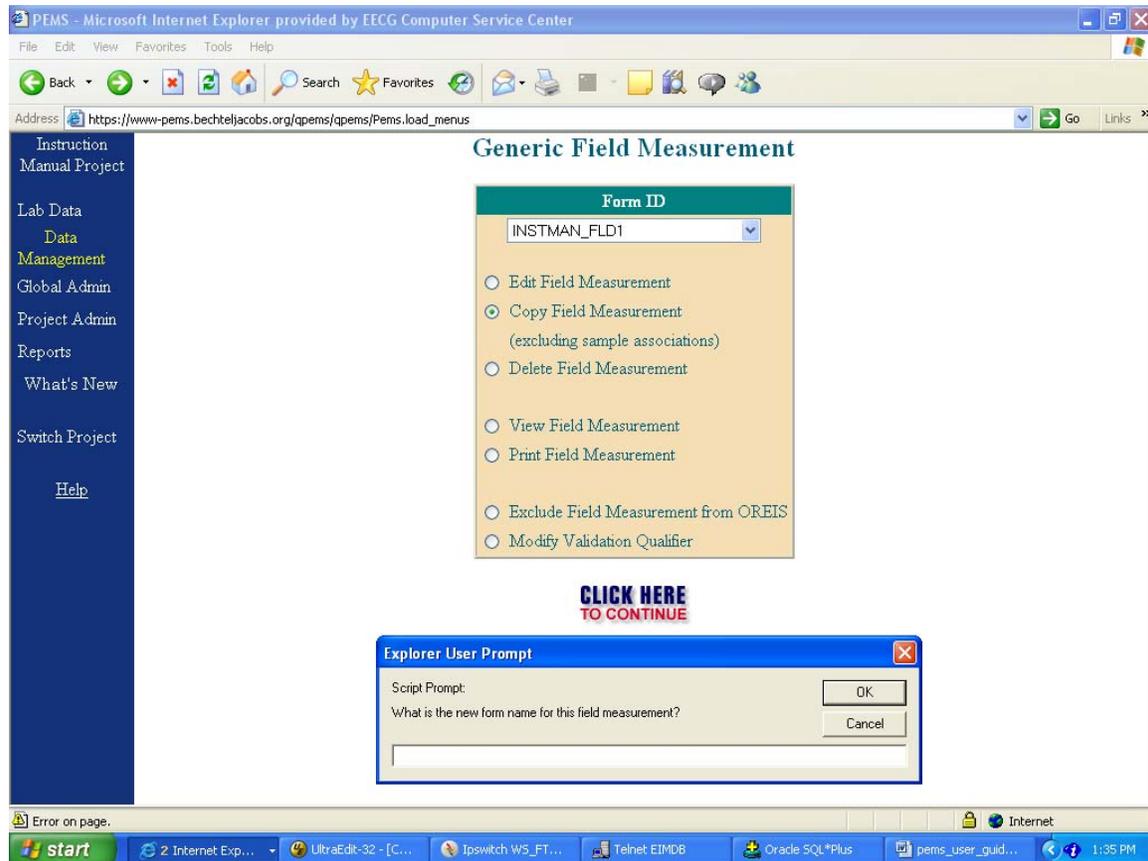
By clicking the Continue icon after selecting a template name belong to the current project and *Delete Template* button, it displays a pop-up screen to confirm the delete action. When the OK button is clicked, it removes the template.



By clicking the Continue icon after selecting any template name and *Copy Template To Current Project* button, it displays a pop-up screen for entering a new template name. When the OK button is clicked, it creates a new template by copying from the selected template.

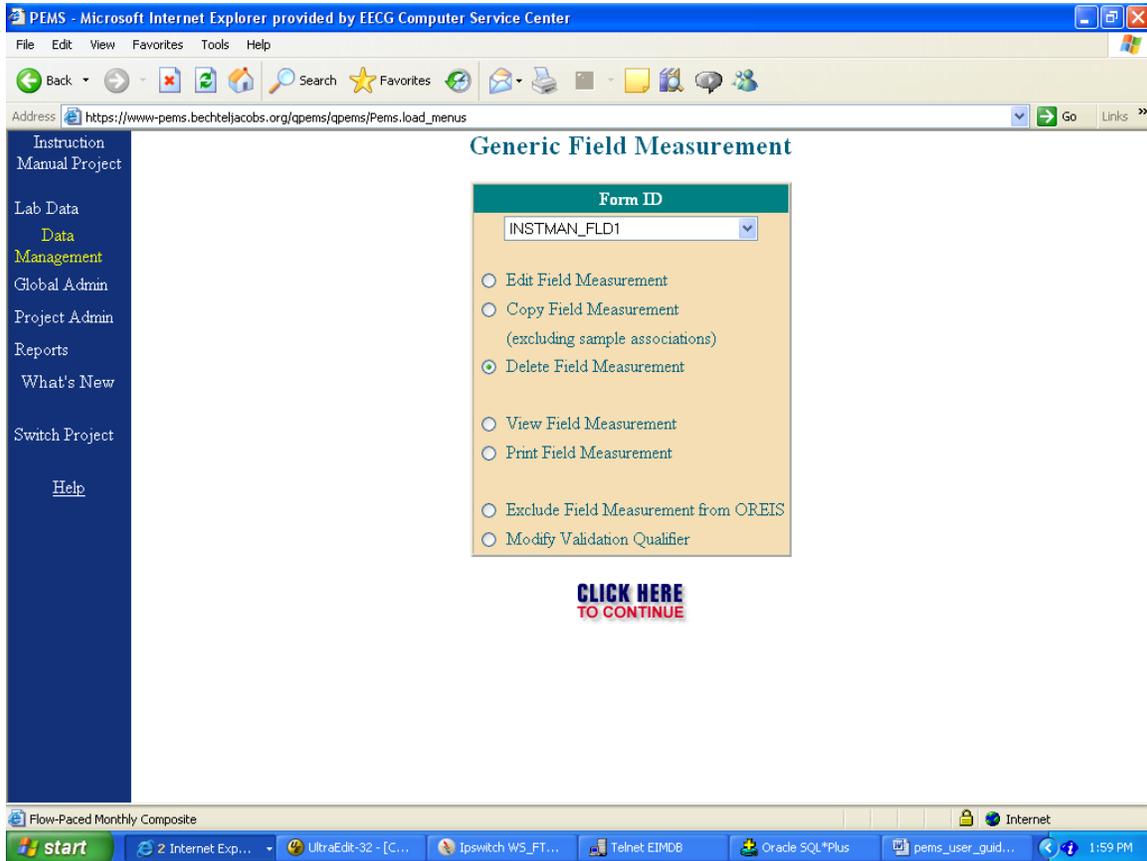


Copy Field Measurement



When clicking the Continue icon after selecting a Form ID and the radio button for Copy Field Measurement on the Generic Field Measurement screen, a pop-up screen will ask for the new form name. After the new form name is entered and the *OK* button is clicked, all Field Measurement information for the selected Form ID is copied into the new form name. The new form name is now added on the Form ID drop down list.

Delete Field Measurement



When clicking the Continue icon after selecting a Form ID and the radio button for Delete Field Measurement on the Generic Field Measurement screen, all Field Measurement information for the selected Form ID will be removed.

View Field Measurement

Field Measurement Form No: INSTMAN_FLD1

Monitoring
 Location/Task: 8002/1407J Begin Date: 03/21/2005
 Team Leader: Collection Date: 03/21/2003 Logbook:
 Weather: Collection Time: 1557
 Comments: monitoring event comment

Parameter	Numeric Result	Unit	Categorical Result	Time	Depth	Depth Unit	Action Level	Equipment ID	Comment
Conductivity			PASS	1557					
Depth	10	FT		1557					

CLICK HERE TO CONTINUE

When clicking the Continue icon after selecting a Form ID and the radio button for View Field Measurement on the Generic Field Measurement screen, all Field Measurement information for the selected Form ID will be displayed on this screen.

By clicking the Continue icon on this screen, it returns to the Generic Field Measurement screen.

Print Field Measurement

The screenshot shows a Microsoft Word document titled "genericPrint.doc (Read-Only)". The document content is as follows:

Project:	INSTMAN	Field Measurement Form No:	INSTMAN_FLD1	Config Control:	N	Begin Date:	03/21/2005
Task:	1407J	Monitoring Location:	8002	Matrix Type:	AG	Collection Date:	03/21/2003
Team Leader:		Logbook:		Collection Time:	1557		
Weather:							
Comments:	monitoring event comment						

Parameter Code	Parameter Name	Numeric Result	Result Unit	Categorical Result	Time	Depth	Depth Unit	Action Level	Equipment ID	Comment
N257	Conductivity			PASS	1557					
NS021	Depth	10	FT		1557					

The status bar at the bottom of the Word window shows: Page 1, Sec 1, 1/1, At 2.7", Ln 1, Col 1, REC | TRX | EXT | OVR.

The Windows taskbar at the bottom shows the Start button and several open applications: Internet Explorer, UltraEdit-32, Ipswitch WS_F..., Telnet udbqa01, pems_user_gui..., and genericPrint.do... The system clock shows 11:14 AM.

When clicking the Continue icon after selecting a Form ID and the radio button for View Field Measurement on the Generic Field Measurement screen, all Field Measurement information for the selected Form ID will be displayed in Microsoft Word Rich Text Format (.rtf).

Exclude Field Measurement from OREIS

Instruction
Manual Project

Lab Data
Data
Management
Global Admin
Project Admin
Reports
What's New
Switch Project
Help

Exclude Field Measurement from OREIS
Form ID: INSTMAN_FLD1

Parameter	Numeric Result	Unit	Categorical Result	Time	Depth	Depth Unit	Action Level	Equipment ID	Use in OREIS?
Conductivity			PASS	1557					Yes
Depth	10	FT		1557					Yes

**CLICK HERE
TO CONTINUE**

When clicking the Continue icon after selecting a Form ID and the radio button for Exclude Field Measurement from OREIS on the Generic Field Measurement screen, this screen is displayed.

The user can click the “Select/Deselect All” checkbox to set the “Use in OREIS?” column to “Yes” value or “No” value.

When the Continue icon is clicked, the values in the “Use in OREIS?” column will be saved and it returns to the Generic Field Measurement screen.

Modify Validation Qualifier

PEMS - Microsoft Internet Explorer provided by EECG Computer Service Center

Address: https://www-pems.bchteljacobs.org/qpems/qpems/Pems.load_menus

Modify Validation Qualifier

Field Measurement Form No: INSTMAN_FLD1

Monitoring
 Location/Task: 8002/1407J Begin Date: 03/21/2005
 Team Leader: Collection Date: 03/21/2003 Logbook:
 Weather: Collection Time: 1557
 Comments: monitoring event comment

Select Validation Qualifier to be set for all of the following Field Measurements

Parameter	Numeric Result	Unit	Categorical Result	Time	Depth	Depth Unit	Action Level	Equipment ID	Validation Qualifier	Comment
Conductivity			PASS	1557					XV	
Depth	10	FT		1557					XV	

When clicking the Continue icon after selecting a Form ID and the radio button for Modify Validation Qualifier on the Generic Field Measurement screen, this screen is displayed.

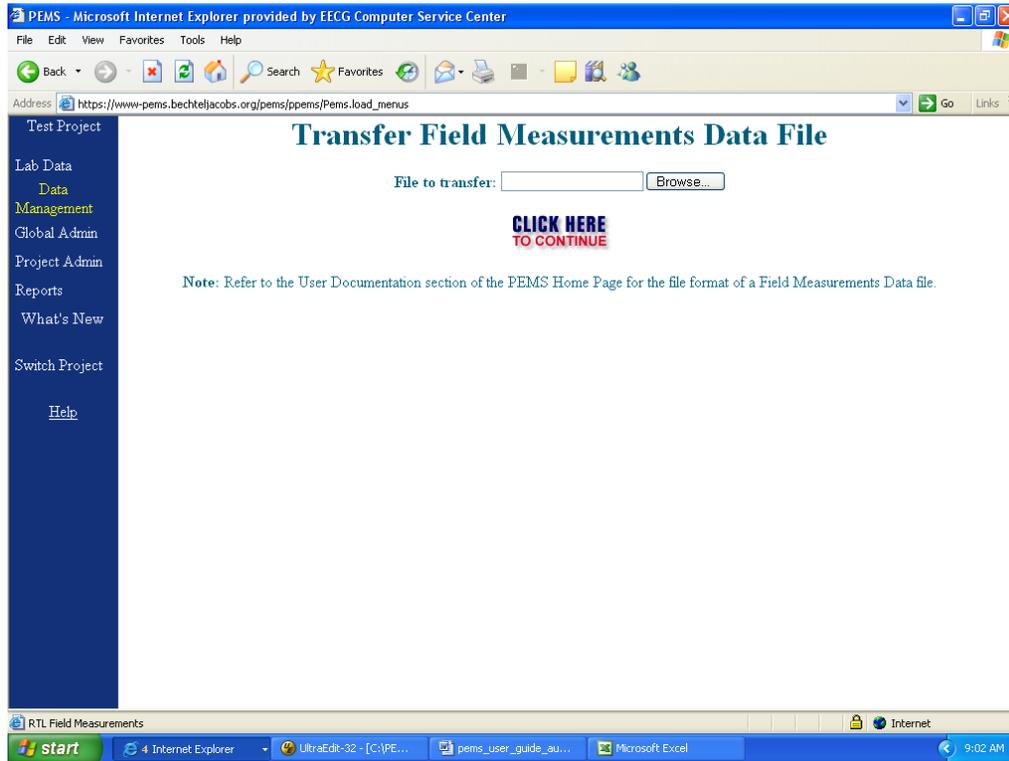
When the user selects a Validation Qualifier and clicks the “Set ALL” button, it will set the selected Validation Qualifier for all the Field Measurements on the screen.

If the user does not select a Validation Qualifier and clicks the “Set ALL” button, a pop-up message “Please select a Validation Qualifier to be set for all of the following Field Measurements” will be displayed.

When the *Save Validation Qualifier* button is clicked, the values in the “Validation Qualifier” column will be saved and the *Modify Validation Qualifier* button is displayed.

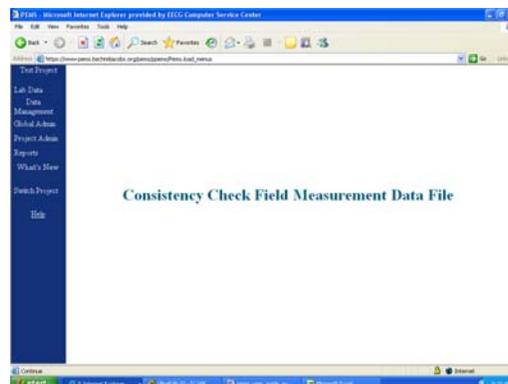
When clicking the *Return to Field Measurement Main Screen* button, it returns to Generic Field Measurement screen.

RTL Field Measurements Main Screen

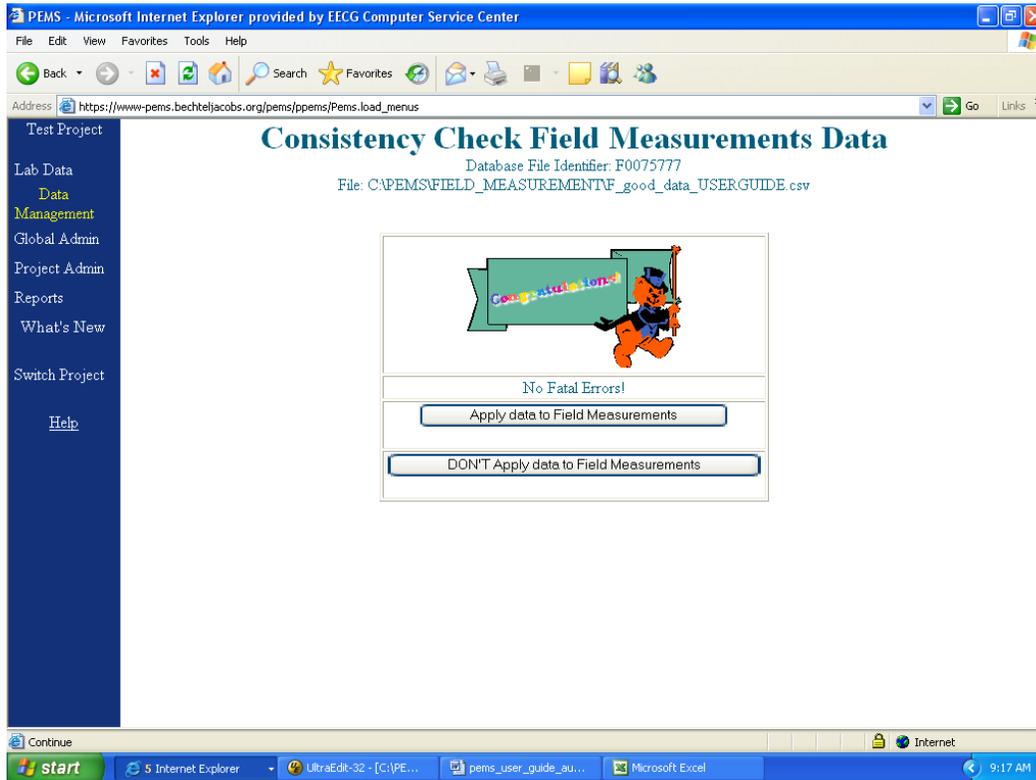


The Ready To Load Field Measurements main screen allows the user to enter the name of the CSV file which has field measurements information to be loaded into PEMS. The *Browse* button is available to assist the user in locating the CSV file. The Field Measurements data file format can be found in the User Documentation section of the PEMS Home Page (<https://www-pems.ettp.energy.gov/pems/home/home.html>).

By entering the name of the CSV Field Measurements data file and clicking the Continue icon, it performs data consistency checks.



RTL Field Measurements

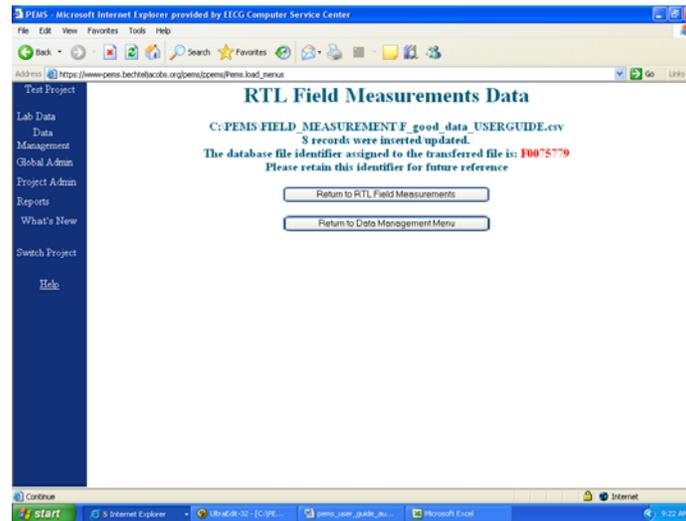


This screen is displayed when the Field Measurements data file passes the data consistency process with no fatal errors.

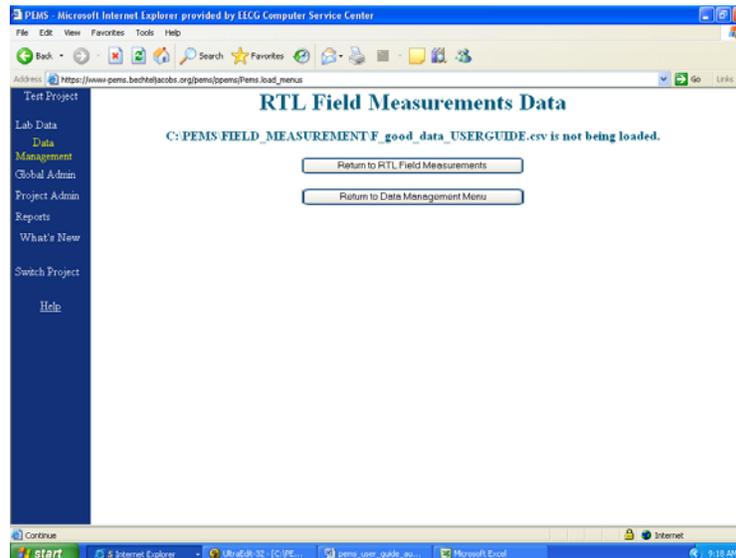
By selecting *Apply data to Field Measurements*, PEMS will insert or update the Field Measurements records from the data file.

By selecting *DON'T Apply data to Field Measurements*, PEMS will not insert or update the Field Measurements records.

RTL Field Measurements



This screen is displayed after the Field Measurements data file is loaded into PEMS. It shows the number of records being inserted or updated, and the database file name to be referenced in the future.



This screen is displayed when the user selects *DON'T Apply data to Field Measurements*. It shows the Field Measurements data file is not being loaded into PEMS.

By selecting Return to RTL Field Measurements, it displays RTL Field Measurements Main Screen.

By selecting Return to Data Management Menu, it displays Data Management Main Screen.

RTL Field Measurement

PEMS - Microsoft Internet Explorer provided by EECG Computer Service Center

Address: https://www-pems.bechteljacobs.org/pems/ppems/Pems.load_menus

Consistency Check Field Measurements Data

Database File Identifier: F0075780
File: C:\PEMS\FIELD_MEASUREMENT\F_test_data file.csv

You have fatal errors that must be corrected

Return to RTL Field Measurements

Return to Data Management Menu

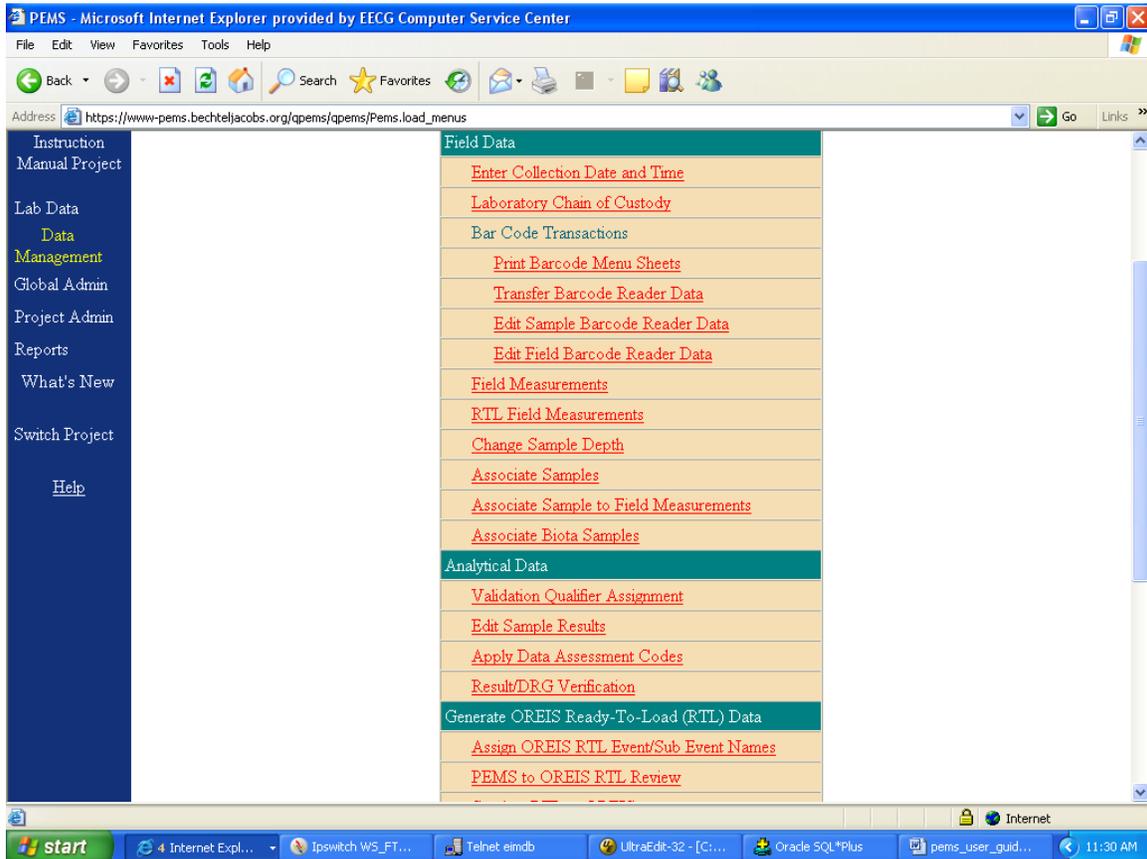
Record #	Field	Error	Error/Warning
1	ETTP-MAIN	Must log into project ETTP-MAIN to load	Fatal
1	ETTP-	Missing Monitoring Event Begin Date	Fatal

This screen is displayed when the Field Measurements data file does not pass the data consistency process. The user must correct all fatal errors before loading the same data file.

By selecting *Return to RTL Field Measurements*, it displays RTL Field Measurements Main Screen.

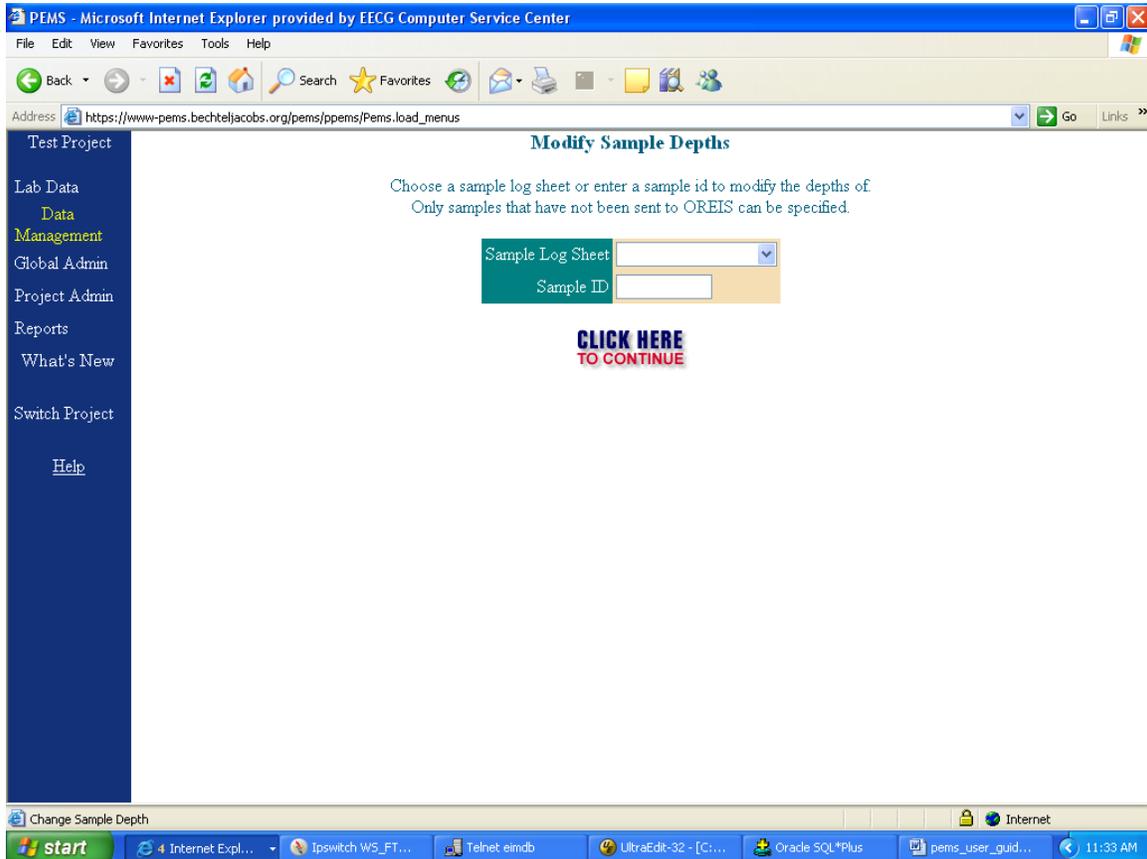
By selecting *Return to Data Management Menu*, it displays Data Management Main Screen.

Change Sample Depth



By clicking the Change Sample Depth on the Data Management Main Screen, it displays the Modify Sample Depths Screen.

Modify Sample Depths Screen

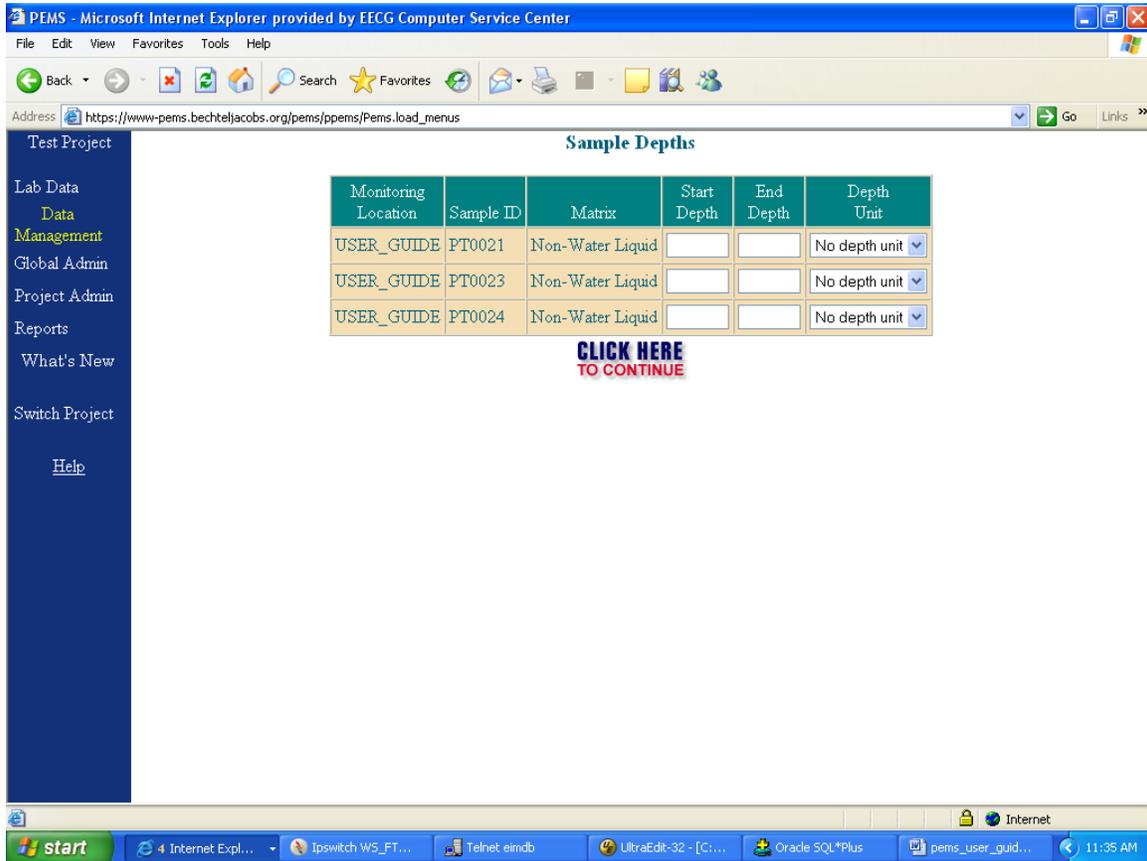


This screen allows the user to edit start depths, end depths, and depth units for a group of samples or an individual sample.

The optional Sample Id field can be used to just display samples whose Ids start with the input character(s).

By clicking the Continue icon and selecting a Sample Log with or without any input for the optional Sample Id field, it displays the Sample Depths Screen.

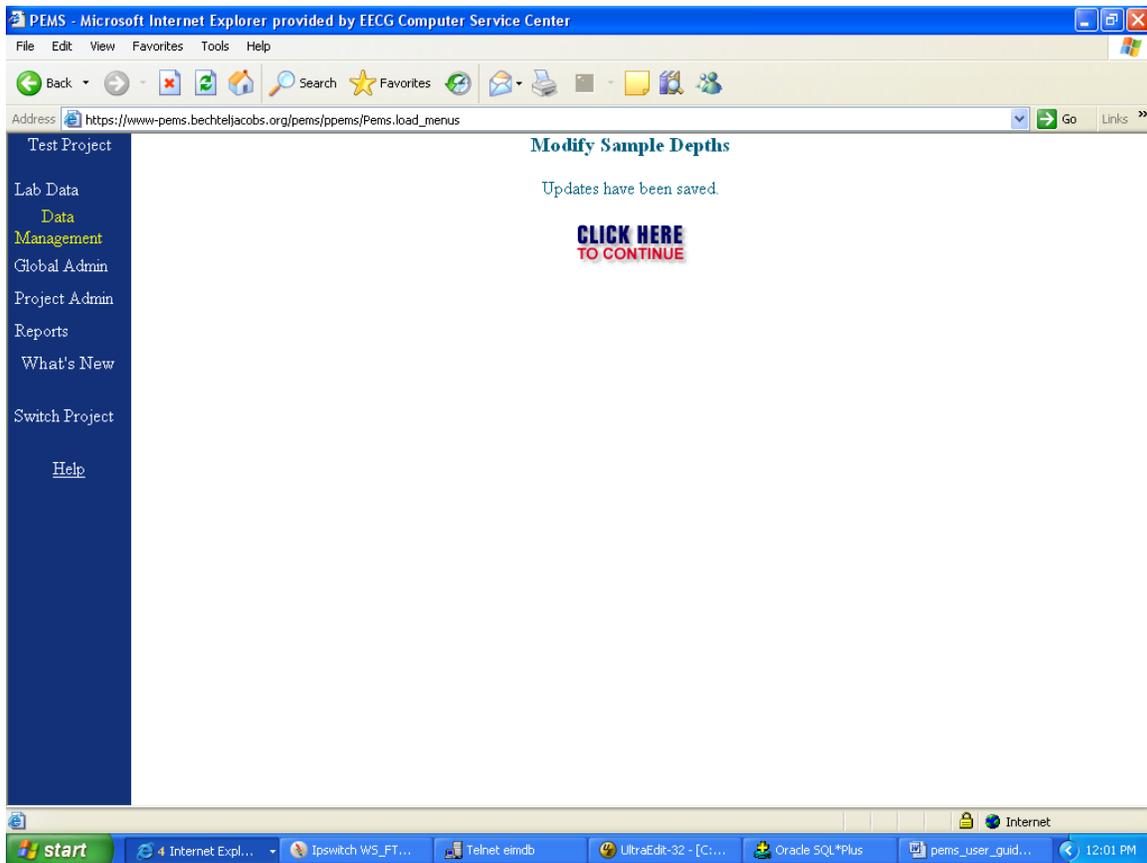
Sample Depths Screen



This screen allows the user to enter or modify the start depth, end depth and depth unit based on the selections entered from the Modify Sample Depths Main Screen.

By clicking the Continue icon, it displays the Modify Sample Depths Screen (Display Message).

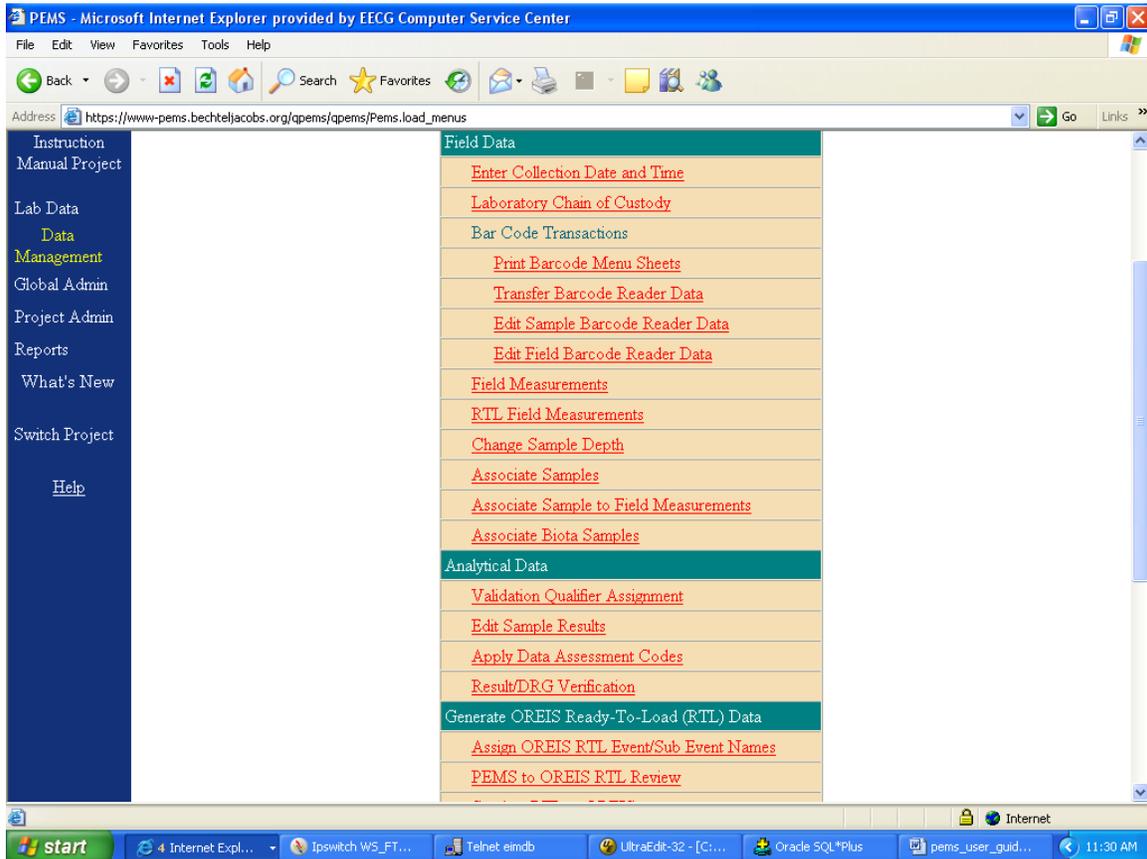
Modify Sample Depths Screen (Display Message)



This screen displays message to indicate that the sample depth information has been saved.

By clicking the Continue icon, it returns to the Modify Sample Depths Screen.

Associate Samples



By clicking the Associate Samples on the Data Management Main Screen, it displays the Associate Samples Query Screen.

Associate Samples Query Screen

Test of PEMS functionality after upgrade of OS to Solaris 9

Lab Data

Data Management

Global Admin

Project Admin

Reports

What's New

Switch Project

Help

Associate Samples Query Screen

Choose a Sample ID

Date	Sample ID	Type	Task	Location	Any Group	Process	Collection Method	Averaging Period	# of Samples Already Associated
05-SEP-2003	TESTTB	TB	TST1	10350-1	1501-1		TC	WK	2

Done Internet

Regular samples can be associated or linked with the appropriate quality control samples.

By clicking a Sample Id, it displays the Associate Samples List Screen.

Associated Samples List Screen

Test of PEMS functionality after upgrade of OS to Solaris 9

Lab Data

Data

Management

Global Admin

Project Admin

Reports

What's New

Switch Project

Help

Current Date: 09-NOV-2004 01:31 PM Project ID: UPGRADEOS

Sample ID: TESTTB Task: TST1 Parameter Anly Grp: 1501-1
 Type: TB Location: 10350-1 Process:
 Collection Method: TC Averaging Period: WK
 Sample Date: 05-SEP-2003

Date	Associated Sample IDs	Type	Task	Location	Anly Group	Process	Collection Method	Averaging Period
01-APR-2004	ANNSAMP1	REG	TST1	10350-1	1501-1			
28-MAR-2004	SECTEST1	REG	TST1	10350-1	1501-1		GR	O

Delete Associate Sample ID(s) from this Sample

Add Associate Sample ID(s) to this Sample

Return to Query

TESTTB Internet

This screen displays information on the quality control sample and if there is a list of already associated regular samples.

By clicking the *Delete Associate Sample ID(s) from this Sample* button, it displays the Associate Sample Id Delete Screen.

By clicking the *Add Associate Sample ID(s) to this Sample* button, it displays the Associate Sample Id Add Screen.

By clicking the *Return to Query* button, it returns to the Associate Sample Query Screen.

Associate Sample ID Delete Screen

Test of PEMS functionality after upgrade of OS to Solaris 9

Associate Sample ID Delete Screen

Associated Sample ID(s) Assigned To Sample ID: TESTTB

	Date	Assoc Sample ID	Type	Task	Location	Any Group	Process	Collection Method	Averaging Period
<input type="checkbox"/>	01-APR-2004	ANNSAMP1	REG	TST1	10350-1	1501-1			
<input type="checkbox"/>	28-MAR-2004	SECTEST1	REG	TST1	10350-1	1501-1		GR	O

CLICK HERE TO CONTINUE

This screen allows the user to remove the regular sample(s) associated with the selected quality control sample.

By selecting any checkbox(es) and clicking the Continue icon, it removes the association and returns to the Associated Samples List Screen.

Associate Sample ID Add Screen

Test of PEMS functionality after upgrade of OS to Solaris 9

Lab Data
Data Management
Global Admin
Project Admin
Reports
What's New
Switch Project
Help

Associate Sample ID Add Screen

CLICK HERE TO CONTINUE

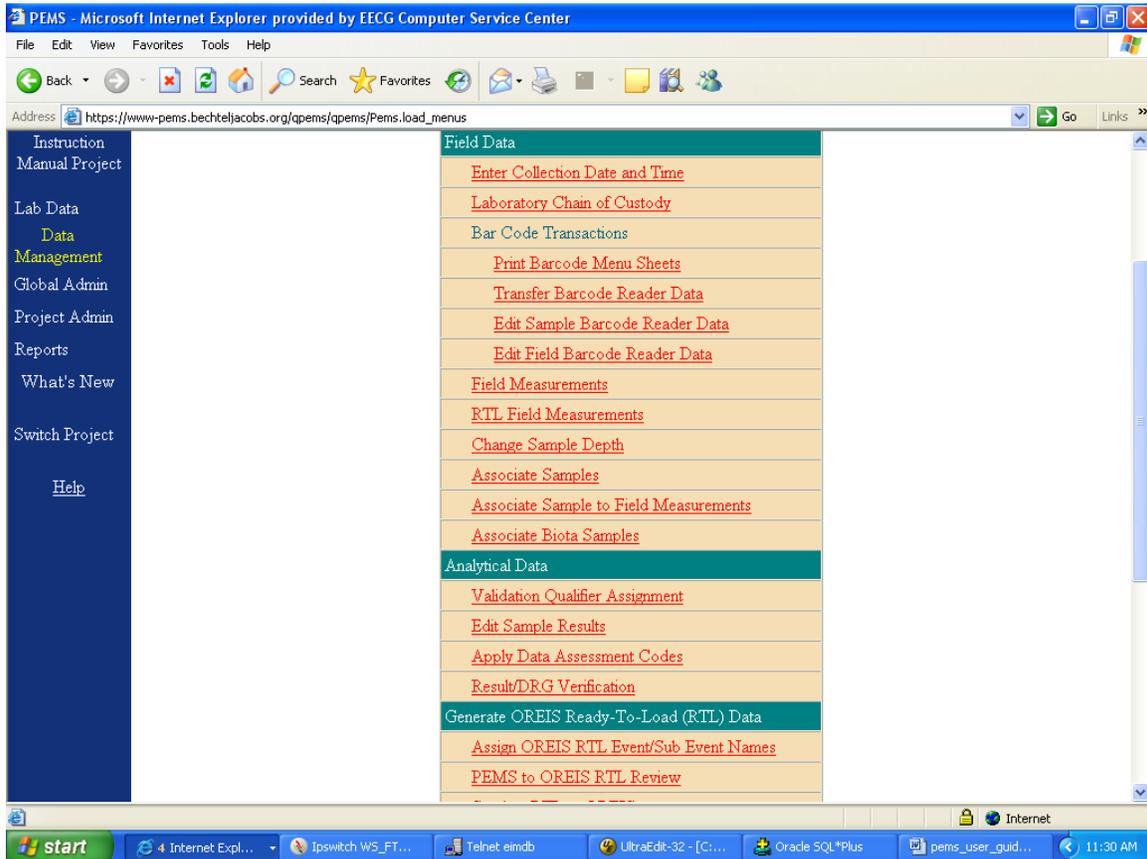
Possible Associate Sample ID(s) to add to Sample ID: TESTTB									
	Date	Assoc Sample ID	Type	Task	Location	Any Group	Process	Collection Method	Averaging Period
<input type="checkbox"/>	13-OCT-2004	DEF	REG	RNAM1	8117A	1194RAD1			
<input type="checkbox"/>	28-MAR-2004	SECTEST1	REG	TST1	10350-1	1501-1		GR	O
<input type="checkbox"/>	28-MAR-2004	SECTEST2	REG	RNAM1	8117A	1501-1		GR	O
<input type="checkbox"/>	28-MAR-2004	SECTEST3	REG	RNAM1	8117A	1501-1		GR	O
<input type="checkbox"/>	28-MAR-2004	SECTEST4	REG	RNAM1	8117A	1501-1		GR	O
<input type="checkbox"/>	20-NOV-2003	SMPL1	REG	RNAM2	8017B	1501-1		ES	WK
<input type="checkbox"/>	27-SEP-2003	SMPL006258	REG	TST1	104	1501-1			
<input type="checkbox"/>	06-MAY-2003	SMPL006257	REG	TST1	10350-1	1501-1			

CLICK HERE TO CONTINUE

This screen allows the user to add regular sample(s) associated with the selected quality control sample.

By selecting any checkbox(es) and clicking the Continue icon, it adds the association and returns to the Associated Samples List Screen.

Associate Samples to Field Measurement



By clicking the Associate Samples to Field Measurements on the Data Management Main Screen, it displays the Associate Samples To Field Measurements Query Screen.

Associate Samples to Field Measurements Query Screen

Test of PEMS functionality after upgrade of OS to Solaris 9

Lab Data
Data
Management
Global Admin
Project Admin
Reports
What's New
Switch Project
Help

Associate Samples To Field Measurements Query Screen

Choose a Sample ID

Sample ID	Type	Task	Location	Any Group	Date
ANNSAMP1	REG	TST1	10350-1	1501-1	01-APR-2004
C01		TST1	10350-1		
Comp001		TST1	10350-1		
DEF	REG	RNAM1	8117A	1194RAD1	13-OCT-2004
DUMMY32	REG	TST1	10350-1	1194RAD1	
EPMCT1	FB	TST1	10350-1	%SOLIDS	
EPMCTRACE	REG	TST1	10350-1	1501-1	
EPMCTRACE2	REG	TST1	10350-1	1501-1	
MULTI-LOC1	REG	RNAM2	8017C	1501-1	
MULTI-LOC2	REG	RNAM2	8017C	1501-1	
MULTI-LOC3	REG	RNAM2	8017C	1501-1	
NEWSAMP-CHOOSE	REG	TST1	104	1501-1	
ONELOC-ONLY	REG	RNAM1	8117A	1501-1	
SECTEST1	REG	TST1	10350-1	1501-1	28-MAR-2004
SECTEST2	REG	RNAM1	8117A	1501-1	28-MAR-2004
SECTEST3	REG	RNAM1	8117A	1501-1	28-MAR-2004
SECTEST4	REG	RNAM1	8117A	1501-1	28-MAR-2004
SECTST1-COPY	REG	TST2	0997	1501-1	
SMPL006257	REG	TST1	10350-1	1501-1	06-MAY-2003
SMPL006258	REG	TST1	104	1501-1	27-SEP-2003
SMPL00777	REG	RNAM1	8117A	1501-1	
SMPL0088888	REG	RNAM1	8117A	1501-1	

Samples can be associated to field measurements using this function.

By clicking a Sample Id, it displays the Associated Field Measurements Screen.

Associated Field Measurements Screen

Test of PEMS functionality after upgrade of OS to Solaris 9

Lab Data
Data
Management
Global Admin
Project Admin
Reports
What's New
Switch Project
Help

Current Date: 09-NOV-2004 02:53 PM Project ID: UPGRADEOS
Sample ID: ANNSAMP1 Task: TST1 Parameter Anly Grp: 1501-1
Type: REG Location: 10350-1 Sample Date: 01-APR-2004
Matrix Type: FR

ASSOCIATED FIELD MEASUREMENTS:

Comment	Meas Type	Parameter	Result	Unit	Date	Time	Rev Flg	Qual
	SW	Dissolved Oxygen	10	MG/L	06-MAY-2003	1520		
	SW	Depth	5	FT	06-MAY-2003	1100		
	SW	Flow Velocity	100	ML/MIN	06-MAY-2003	1520		

Delete Associate Field Meas from this Sample Add Associate Field Meas to this Sample

Revise Comments to this Assoc Field Meas

Return to Query

This screen displays information on the selected sample and if there is a list of already associated field measurements.

By clicking the *Delete Associate Field Meas from this Sample* button, it displays the Delete Associate Sample to Field Meas Screen.

By clicking the *Add Associate Field Meas to this Sample* button, it displays the Associate Sample Id to Field Meas Add Screen.

By clicking the *Revise Comments to this Assoc Field Meas* button, it displays the Revise Comments to Field Meas/Assoc Sample Screen.

By clicking the *Return to Query* button, it returns to the Associate Samples to Field Measurements Query Screen.

Delete Associate Sample to Field Meas Screen

Test of PEMS functionality after upgrade of OS to Solaris 9

Lab Data
Data
Management
Global Admin
Project Admin
Reports
What's New
Switch Project
Help

Delete Associate Sample To Field Meas

Associated Samples / Field Measurements: ANNSAMP1

	Comment	Meas Type	Parameter	Result	Unit	date	Time	Rev Flg	Qual
<input type="checkbox"/>		SW	Dissolved Oxygen	10	MG/L	06-MAY-2003	1520		
<input type="checkbox"/>		SW	Depth	5	FT	06-MAY-2003	1100		
<input type="checkbox"/>		SW	Flow Velocity	100	ML/MIN	06-MAY-2003	1520		

CLICK HERE TO CONTINUE

This screen allows the user to remove the field measurement(s) associated with the selected sample.

By selecting any checkbox(es) and clicking the Continue icon, it removes the association and returns to the Associate Samples to Field Measurements Query Screen.

Associate Sample ID to Field Meas Add Screen

Test of PEMS functionality after upgrade of OS to Solaris 9

Lab Data
Data
Management
Global Admin
Project Admin
Reports
What's New
Switch Project
Help

Associate Sample ID to Field Meas Add Screen

Listed below are Field Measurements available to be associated to Sample ID: **ANNSAMP1** with Matrix Type: **FR**

If your desired Field Measurements are not displayed, please confirm that the Field Measurement Matrix Type matches the selected sample.

	Meas Type	Parameter	Result	Unit	Date	Time	Rev Flg	Qual
<input type="checkbox"/>	SW	Depth to Water	10	FT	05/06/2003	1000		
<input type="checkbox"/>	SW	pH	3.5	STD UNIT	05/06/2003	1535		
<input type="checkbox"/>	SW	Flow 24 hour total	30	KG	05/06/2003	1300		
<input type="checkbox"/>	SW	Flow Angle	20	LB	05/06/2003	1100		

CLICK HERE TO CONTINUE

Done Internet

This screen allows the user to add field measurement(s) associated with the selected sample.

By selecting any checkbox(es) and clicking the Continue icon, it adds the association and returns to the Associate Samples to Field Measurements Query Screen.

Revise Comments to Field Meas/Assoc Sample Screen

Test of PEMS functionality after upgrade of OS to Solaris 9

Lab Data
Data Management
Global Admin
Project Admin
Reports
What's New
Switch Project
Help

Revise Comments to Field Meas/Assoc Sample

Associated Samples / Field Measurements: ANNSAMP1

Comment	Meas Type	Parameter	Result	Unit	date	Time	Rev Flg	Qual
<input type="text"/>	SW	Dissolved Oxygen	10	MG/L	06-MAY-2003	1520		
<input type="text"/>	SW	Depth	5	FT	06-MAY-2003	1100		
<input type="text"/>	SW	Flow Velocity	100	ML/MIN	06-MAY-2003	1520		

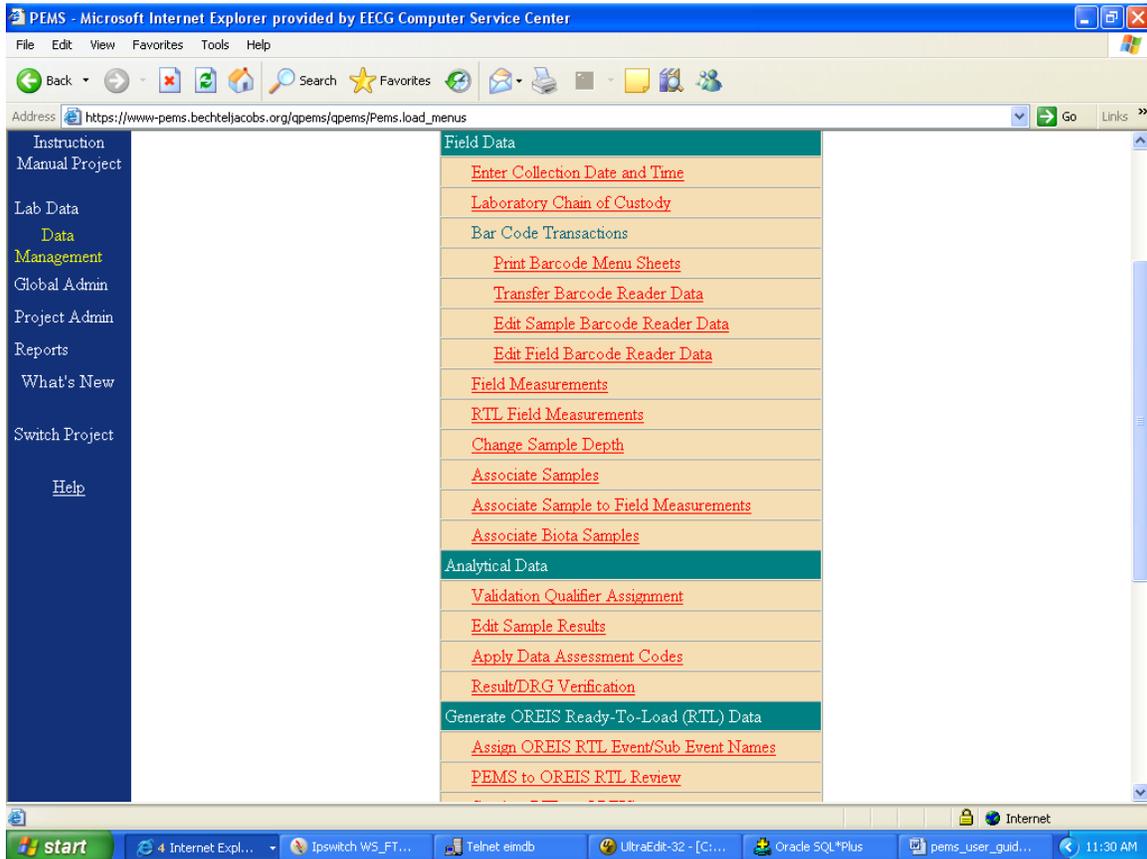
CLICK HERE TO CONTINUE

Done Internet

This screen allows the user to edit any comment for the sample association to field measurements.

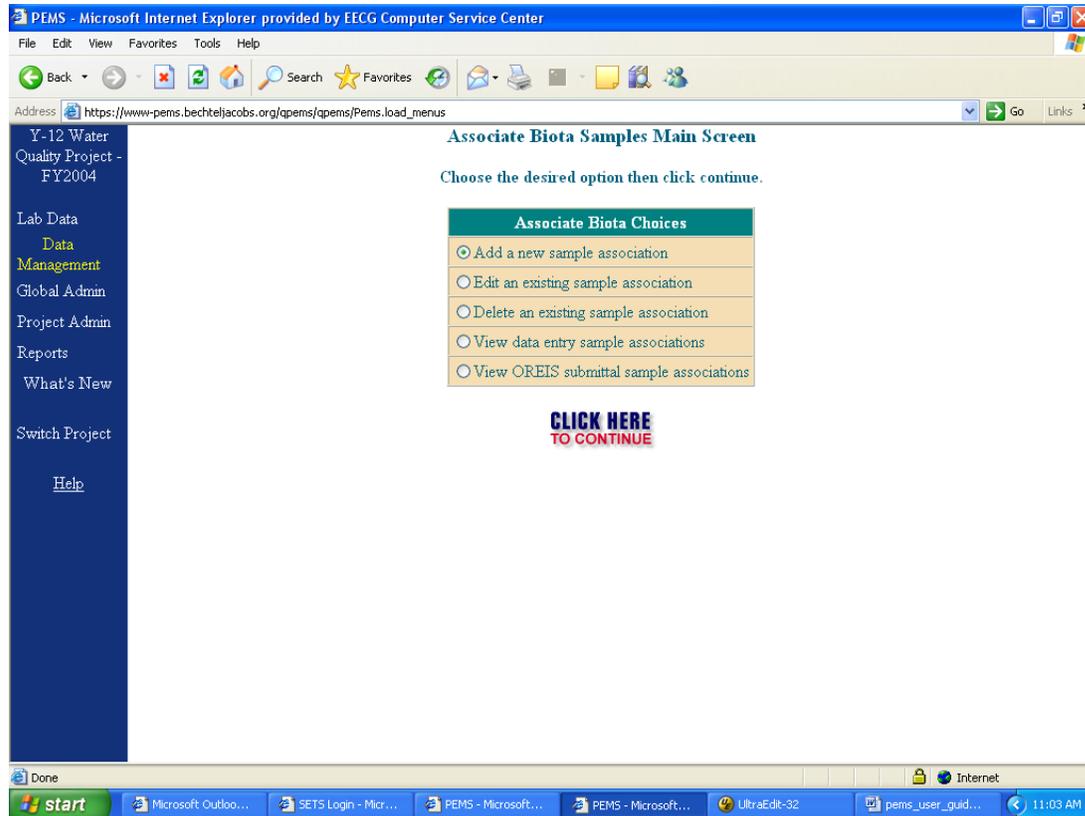
By clicking the Continue icon, it saves the information and returns to the Associate Samples to Field Measurements Query Screen.

Associate Biota Samples



By clicking the Associate Biota Samples on the Data Management Main Screen, it displays the Associate Biota Sample Main Screen.

Associate Biota Samples Main Screen



This screen allows the user to add, edit, delete and view associations among biota samples with the same matrix type. It also allows the user to view OREIS submittal sample associations.

By selecting *Add a new sample association* and clicking the Continue icon, it displays the Associate Biota Sample – Pick Sample (for Adding) Screen.

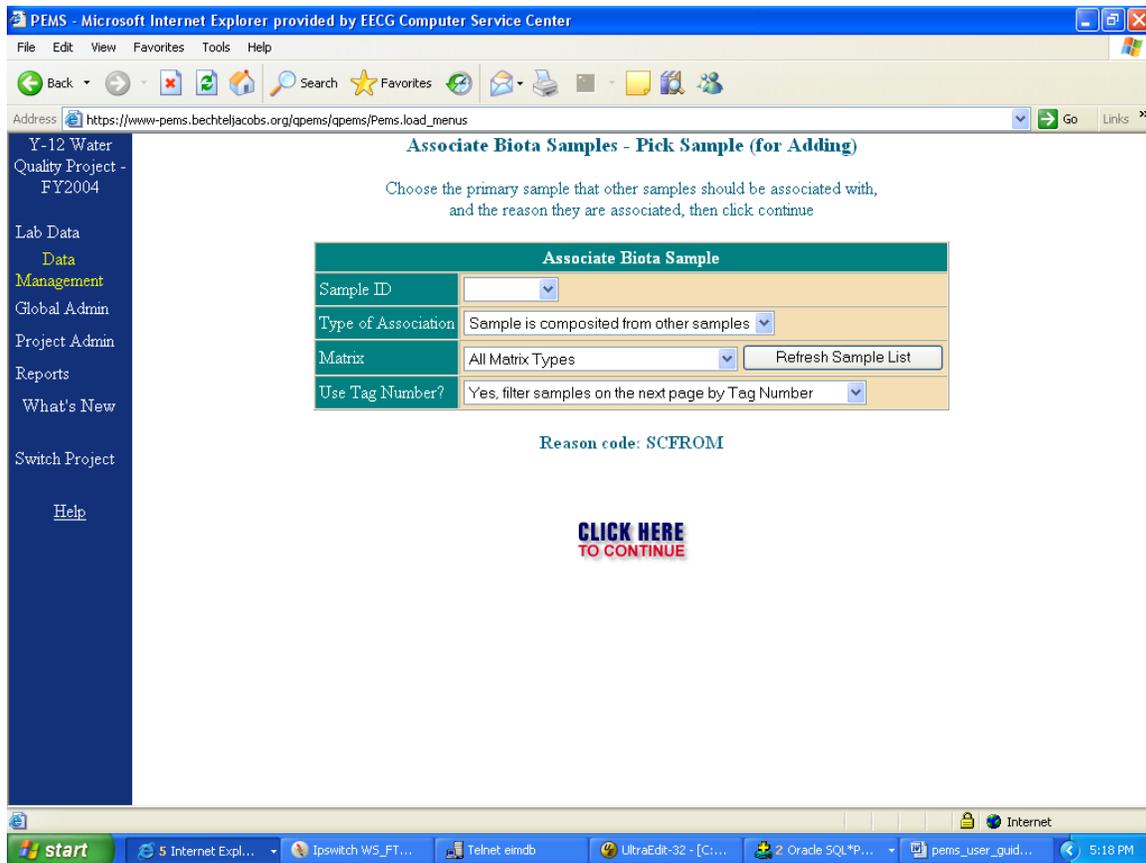
By selecting *Edit an existing sample association* and clicking the Continue icon, it displays the Associate Biota Sample – Pick Primary Sample (for Editing) Screen.

By selecting *Delete an existing sample association* and clicking the Continue icon, it displays the Associate Biota Sample – Pick Primary Sample (for Deleting) Screen.

By selecting *View data entry sample associations* and clicking the Continue icon, it displays the View Associated Biota Samples Screen (Choose Matrix).

By selecting *View OREIS submittal sample associations* and clicking the Continue icon, it displays the View OREIS Submittal Sample Associations Screen.

Associate Biota Samples – Pick Sample (for Adding) Screen

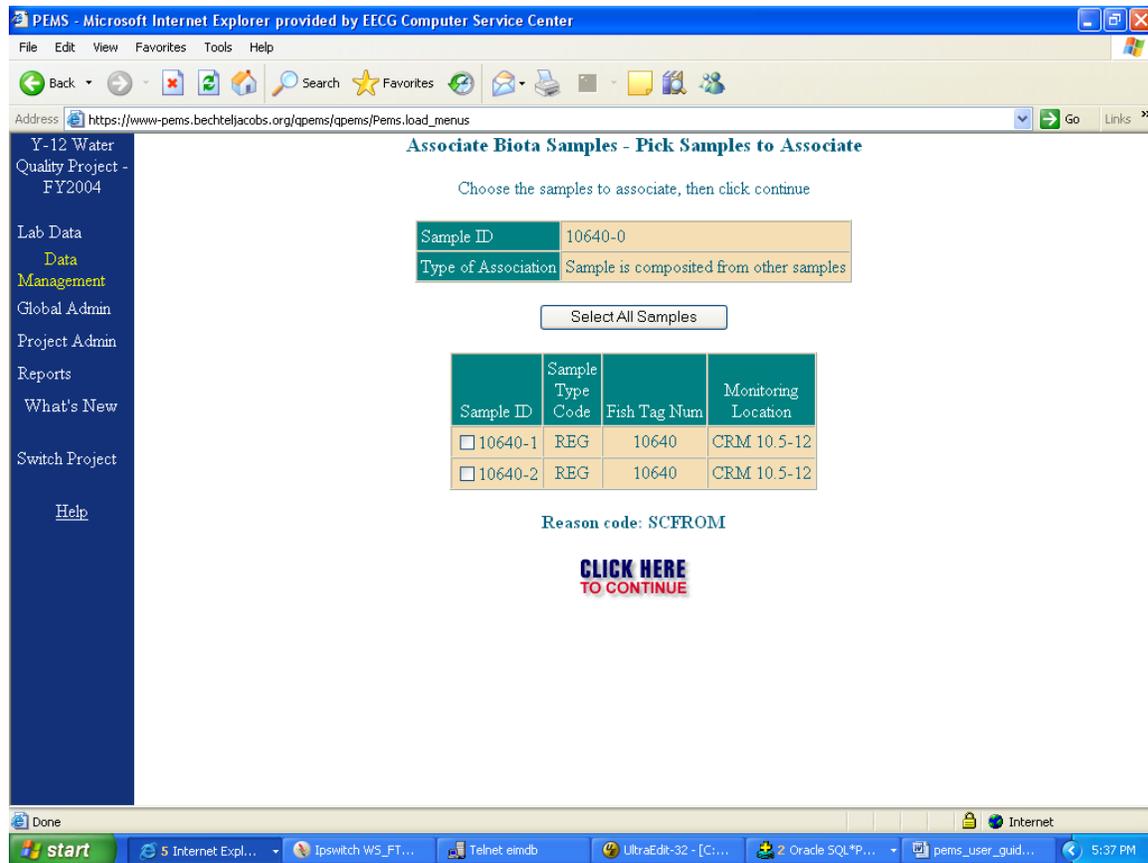


This screen allows the user to add biota sample associations for a selected primary *Sample ID*. The *Type of Association* can be composite of other samples or split into other samples. By selecting a matrix type from the *Matrix* drop-down list and clicking the *Refresh Sample List* button, it re-populates the selection list for the primary *Sample ID*. The *Use Tag Number* allows the user to optionally filter the list of sample(s) to be associated based on the selected primary *Sample ID*'s tag number.

By clicking the Continue icon **without** selecting a primary *Sample ID*, it pops up a message “You must select a Sample ID first”.

By selecting a primary *Sample ID* and clicking the Continue icon, it displays the Associate Biota Samples – Pick Sample to Associate Screen.

Associate Biota Samples – Pick Samples to Associate Screen

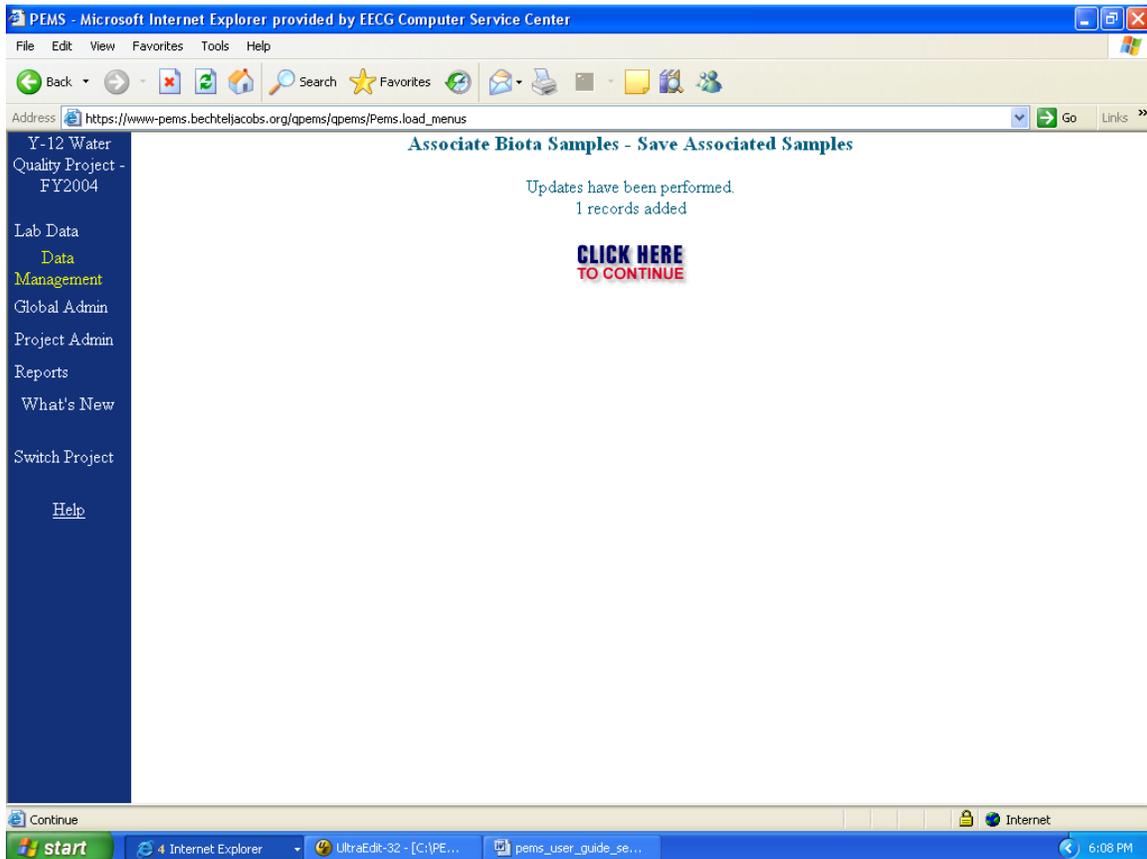


This screen allows the user to pick sample(s) that are associated to the selected primary *sample*.

By clicking the *Select All Samples* button, it automatically selects all checkboxes for the *Sample ID*.

By clicking the Continue icon, it saves the biota sample association and displays the Associate Biota Samples – Save Associated Samples Screen.

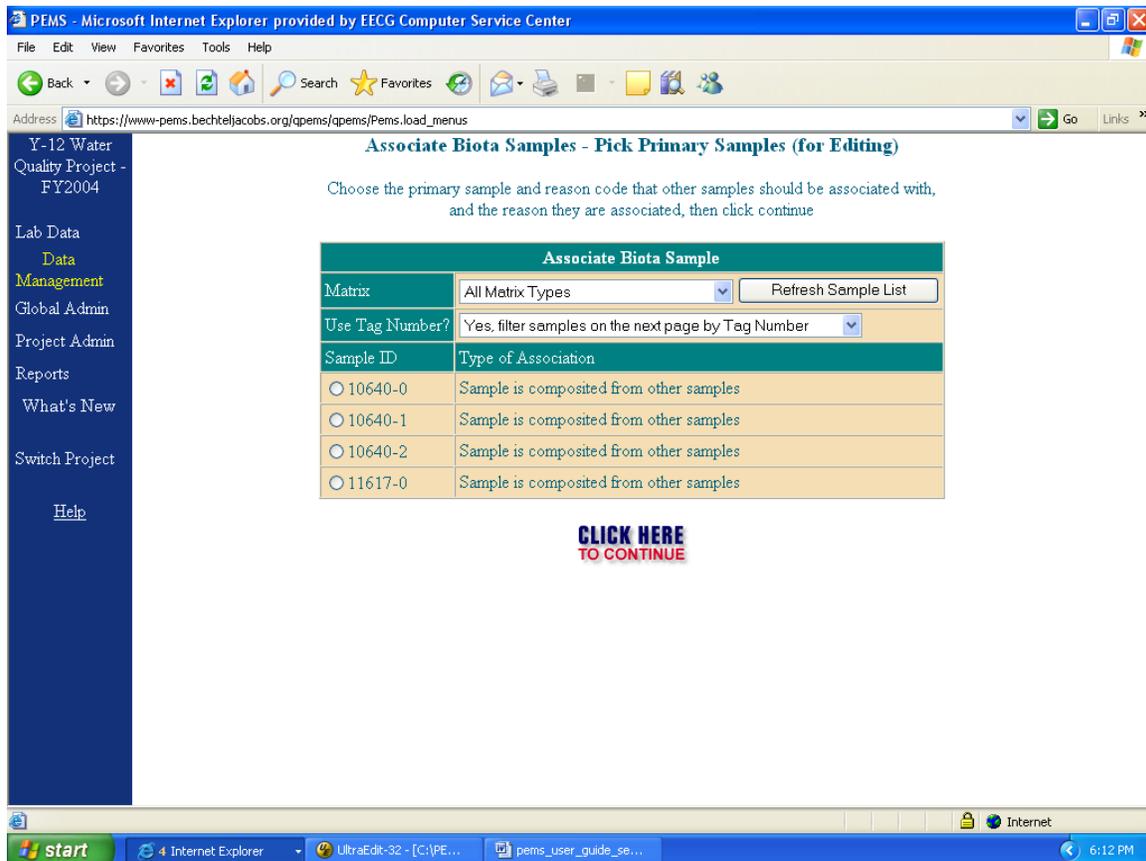
Associate Biota Samples – Save Associated Samples Screen



This screen displays information on number of records being added, deleted or unchanged for the biota sample association.

By clicking the Continue icon, it returns to the Associate Biota Samples Main Screen.

Associate Biota Samples – Pick Primary Samples (for Editing) Screen



This screen allows the user to pick the primary biota sample in order to set up associations with other biota sample(s). By selecting a matrix type from the *Matrix* drop-down list and clicking the *Refresh Sample List* button, it re-populates the selection list for the primary *Sample ID*. The *Use Tag Number* allows the user to optionally filter the list of sample(s) to be associated based on the selected primary *Sample ID*'s tag number.

By clicking the Continue icon **without** selecting a *Sample ID*, it pops up a message “You must select a Sample and reason code before you can continue”.

By selecting a primary *Sample ID* and clicking the Continue icon, it displays the Associate Biota Samples – Pick Samples to Associate Screen.

Associate Biota Samples – Pick Samples to Associate Screen

Y-12 Water Quality Project - FY2004

Lab Data

Data Management

Global Admin

Project Admin

Reports

What's New

Switch Project

Help

Associate Biota Samples - Pick Samples to Associate

Choose the samples to associate, then click continue

Sample ID	10640-0
Type of Association	Sample is composited from other samples

Select All Samples

Sample ID	Sample Type Code	Fish Tag Num	Monitoring Location
<input checked="" type="checkbox"/> 10640-1	REG	10640	CRM 10.5-12
<input type="checkbox"/> 10640-2	REG	10640	CRM 10.5-12

Reason code: SCFROM

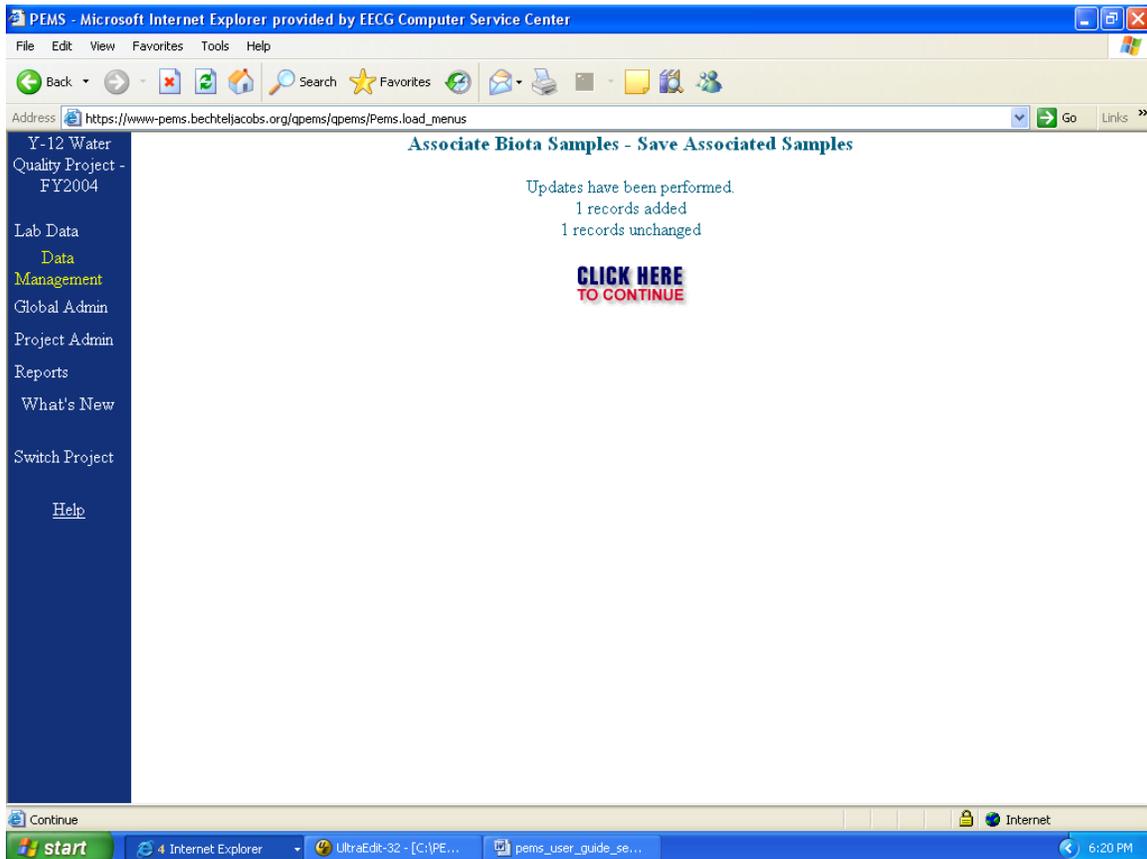
CLICK HERE TO CONTINUE

This screen displays the current biota sample association for the selected primary sample and allows the user to re-select sample(s) that are associated to the selected primary sample.

By clicking the *Select All Samples* button, it automatically selects all checkboxes for the *Sample ID*.

By clicking the Continue icon, it saves the biota sample association and displays the Associate Biota Samples – Save Associated Samples Screen.

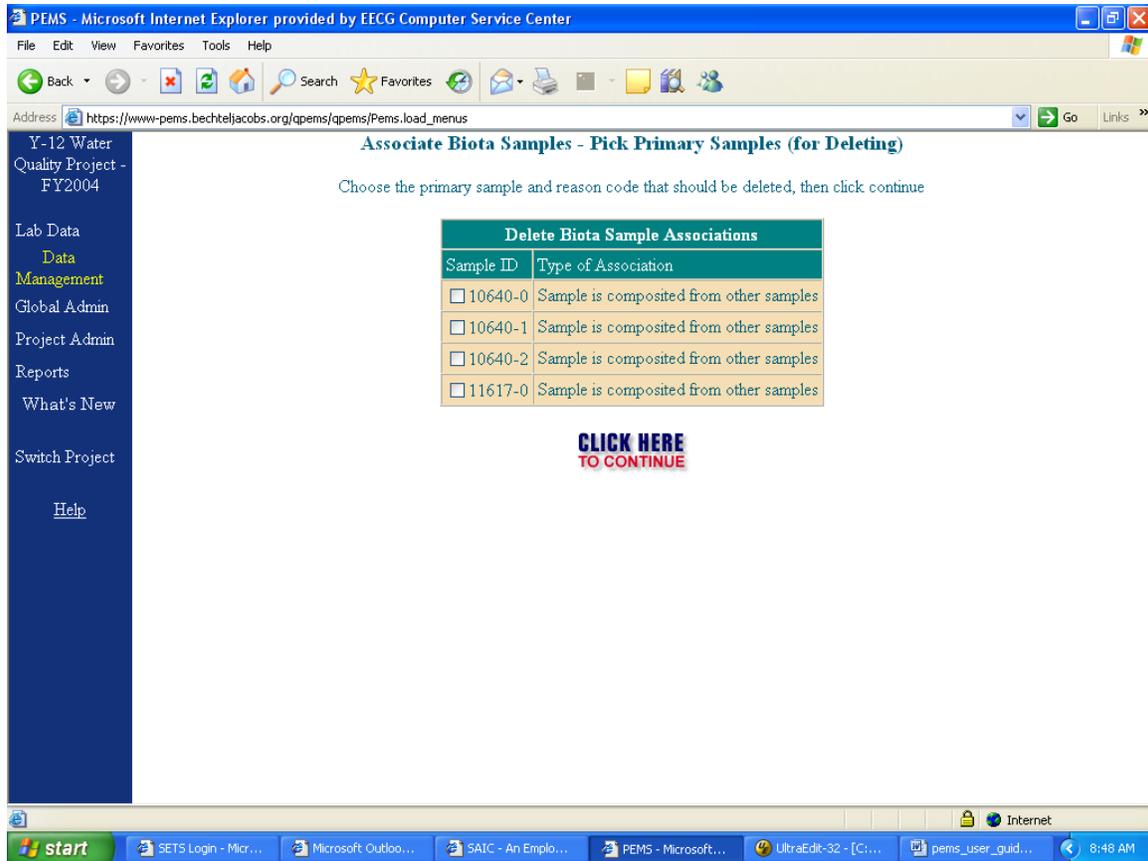
Associate Biota Samples – Save Associated Samples Screen



This screen displays information on number of records being added, deleted or unchanged for the biota sample association.

By clicking the Continue icon, it returns to the Associate Biota Samples Main Screen.

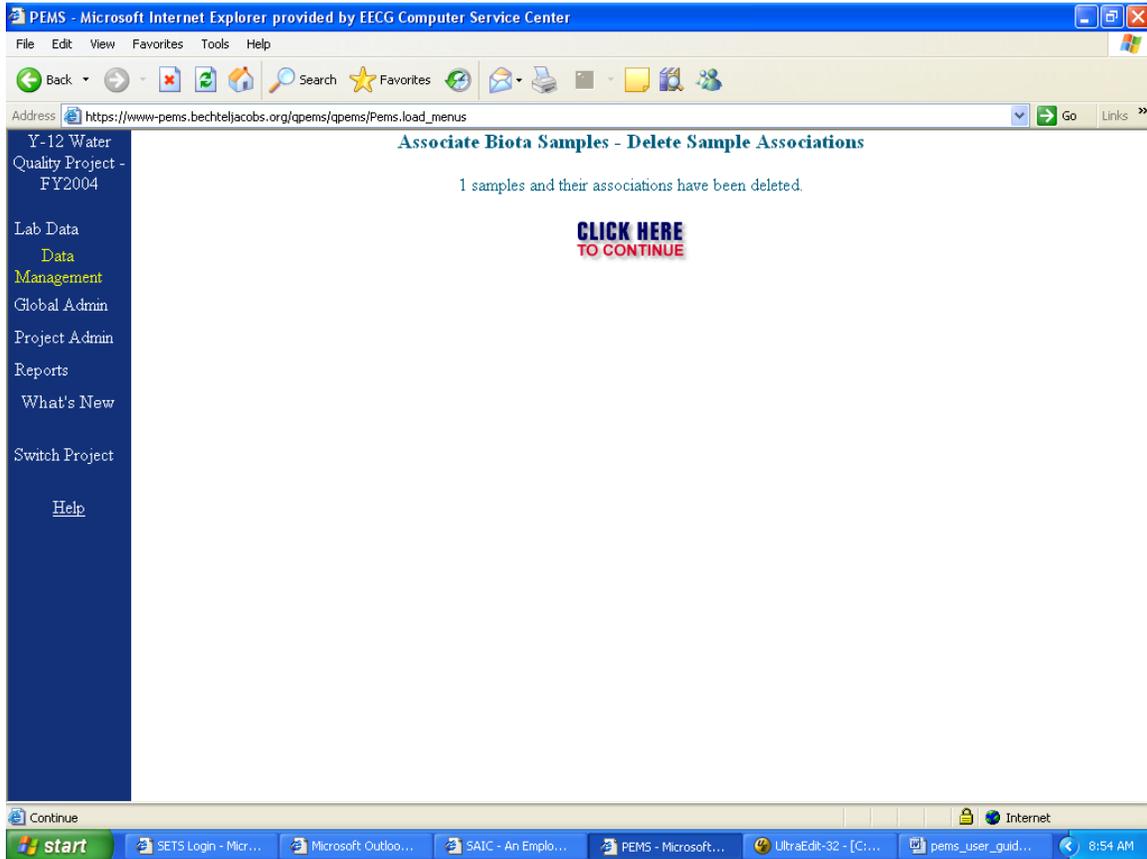
Associate Biota Samples – Pick Primary Samples (for Deleting) Screen



This screen allows the user to pick the primary biota sample(s) to be deleted for biota sample association(s).

By selecting the primary Sample ID(s) and clicking the Continue icon, it deletes the selected biota sample association(s) and displays the Associate Biota Samples – Delete Sample Associations Screen.

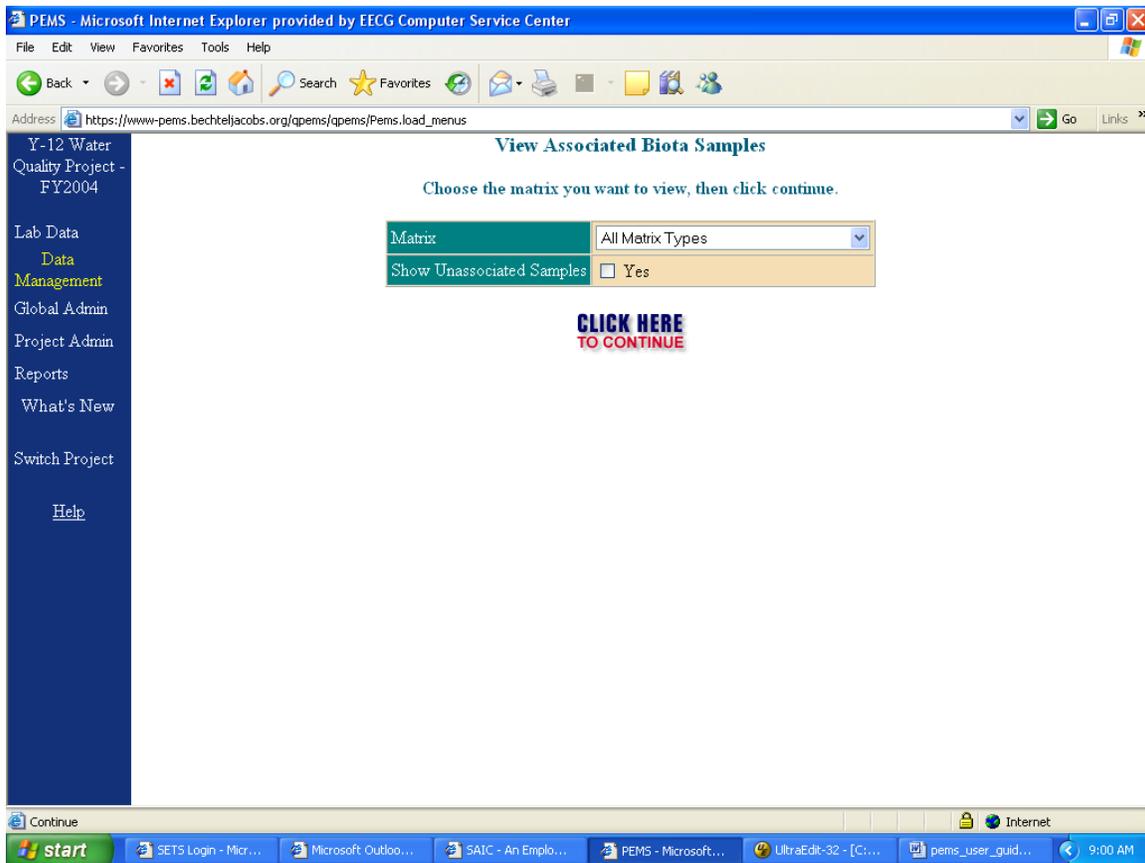
Associate Biota Samples – Delete Sample Associations Screen



This screen displays information on number of records being deleted for the selected biota sample association(s).

By clicking the Continue icon, it returns to the Associate Biota Samples Main Screen.

View Associated Biota Samples Screen (Choose Matrix)



This screen allows the user to view information on the current biota sample associations.

The *Matrix* drop-down list allows the user to view a particular matrix type or all matrix types.

The Show Unassociated Samples checkbox is optional.

By clicking the Continue icon, it displays the View Associated Biota Samples Screen.

View Associated Biota Samples Screen

The screenshot shows a Microsoft Internet Explorer browser window displaying the PEMS web application. The address bar shows the URL: https://www-pems.bechteljacobs.org/qpems/qpems/Pems.load_menus. The page title is "View Associated Biota Samples" and the project is "Project: YWQP-2004".

The main content area features a table with the following data:

Sample ID	Type of Association	Associated Samples	Reason Code
10640-1	Sample is composited from other samples	10640-0	SCFROM
10640-2	Sample is composited from other samples	10640-0 10640-1	SCFROM
11617-0	Sample is composited from other samples	11617-1 11617-2 11617-3	SCFROM

Below the table, there is explanatory text:

3 primary sample/reason codes entered (the number of data rows in this table).
 6 total number of associations (unique combinations of Sample ID, Type of Association, and values of Associated sample; also, the number of data rows in the OREIS submittal sample association table).

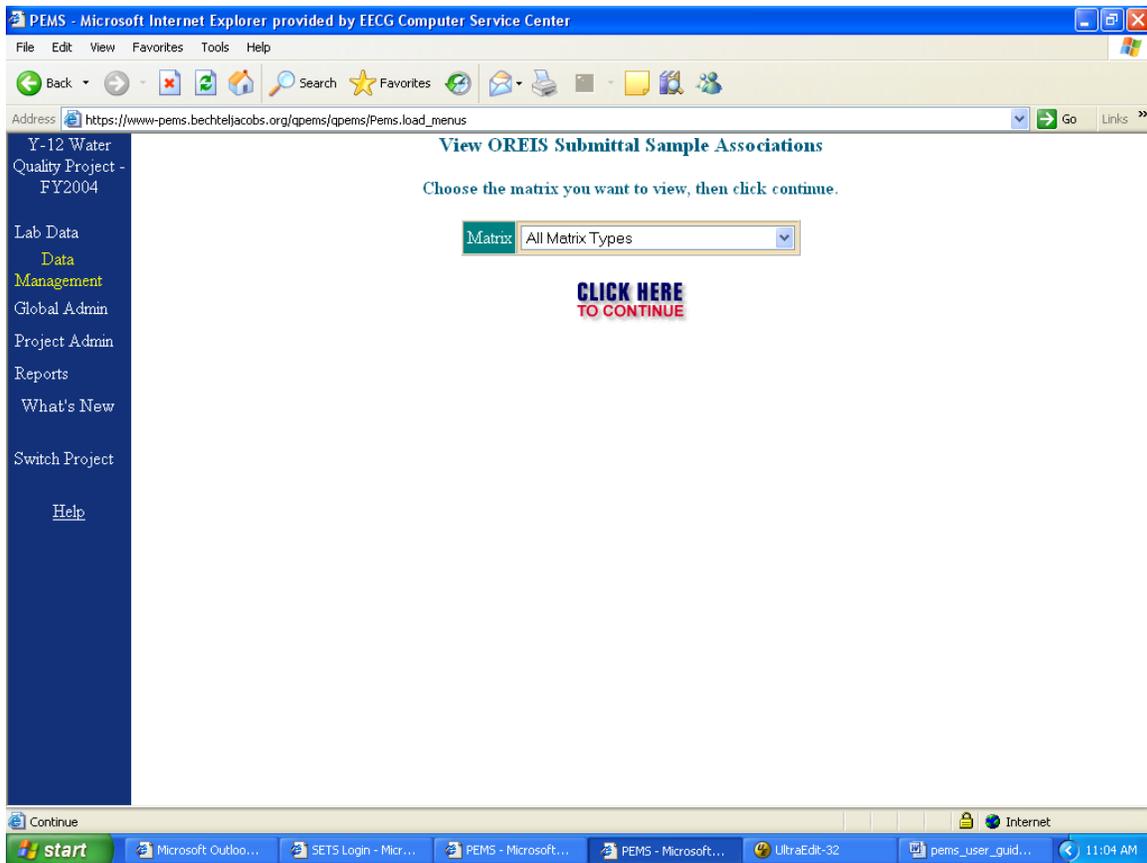
At the bottom of the main content area, there is a red button that says "CLICK HERE TO CONTINUE".

The browser's taskbar at the bottom shows several open applications: SETS Login - Mic..., Microsoft Outloo..., SAIC - An Emplo..., PEMS - Microsoft..., UltraEdit-32 - [C..., pems_user_guid..., and the system clock shows 9:06 AM.

This screen displays information for the biota sample associations based on the selected matrix type.

By clicking the Continue icon, it returns to the Associate Biota Samples Main Screen.

View OREIS Submittal Sample Associations Screen



This screen allows the user to view information on the current OREIS submittal sample associations.

The *Matrix* drop-down list allows the user to view a particular matrix type or all matrix types.

By clicking the Continue icon, it displays the OREIS Submittal Sample Associations Screen.

OREIS Submittal Sample Associations Screen

Y-12 Water Quality Project - FY2004

Lab Data

Data Management

Global Admin

Project Admin

Reports

What's New

Switch Project

Help

OREIS Submittal Sample Associations

Project: YWQP-2004

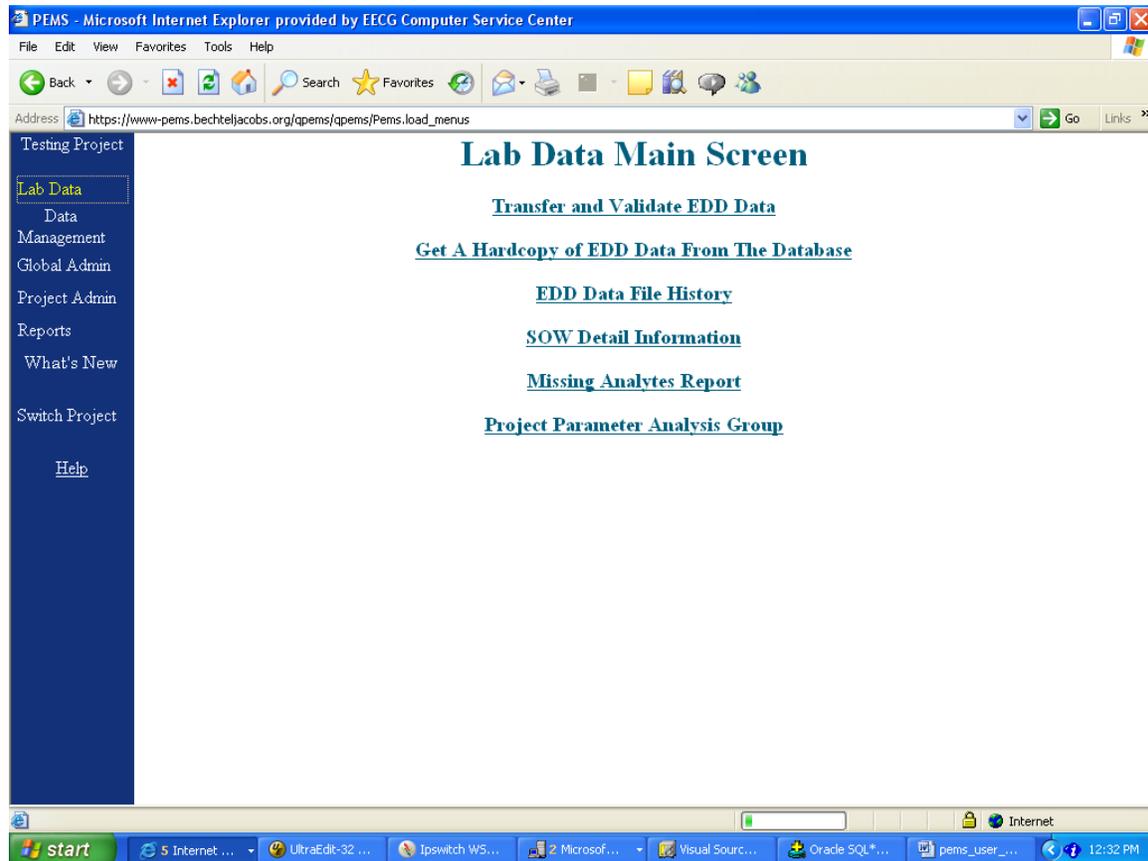
Associated Sample ID	Project Sample ID	Reason Code	Smp_Type	Tag Number	ML_ID
10640-0	10640-1	SCFROM	REG	10640	CRM 10.5-12
10640-0	10640-2	SCFROM	REG	10640	CRM 10.5-12
10640-1	10640-2	SCFROM	REG	10640	CRM 10.5-12
11617-1	11617-0	SCFROM	REG	11617	CRM 19.7-20.7
11617-2	11617-0	SCFROM	REG	11617	CRM 19.7-20.7
11617-3	11617-0	SCFROM	REG	11617	CRM 19.7-20.7

CLICK HERE TO CONTINUE

This screen displays information for the OREIS submittal sample associations based on the selected matrix type.

By clicking the Continue icon, it returns to the Associate Biota Samples Main Screen.

Lab Data Main Screen



All laboratories load their analysis result data to PEMS using the AMSED electronic data deliverable (EDD) format.

By clicking the *Transfer and Validate EDD Data*, it displays the Laboratory Data Load Screen.

By clicking the *Get A Hardcopy of EDD Data From The Database*, it displays the Get A Hardcopy of EDD Data From The Database Query Screen.

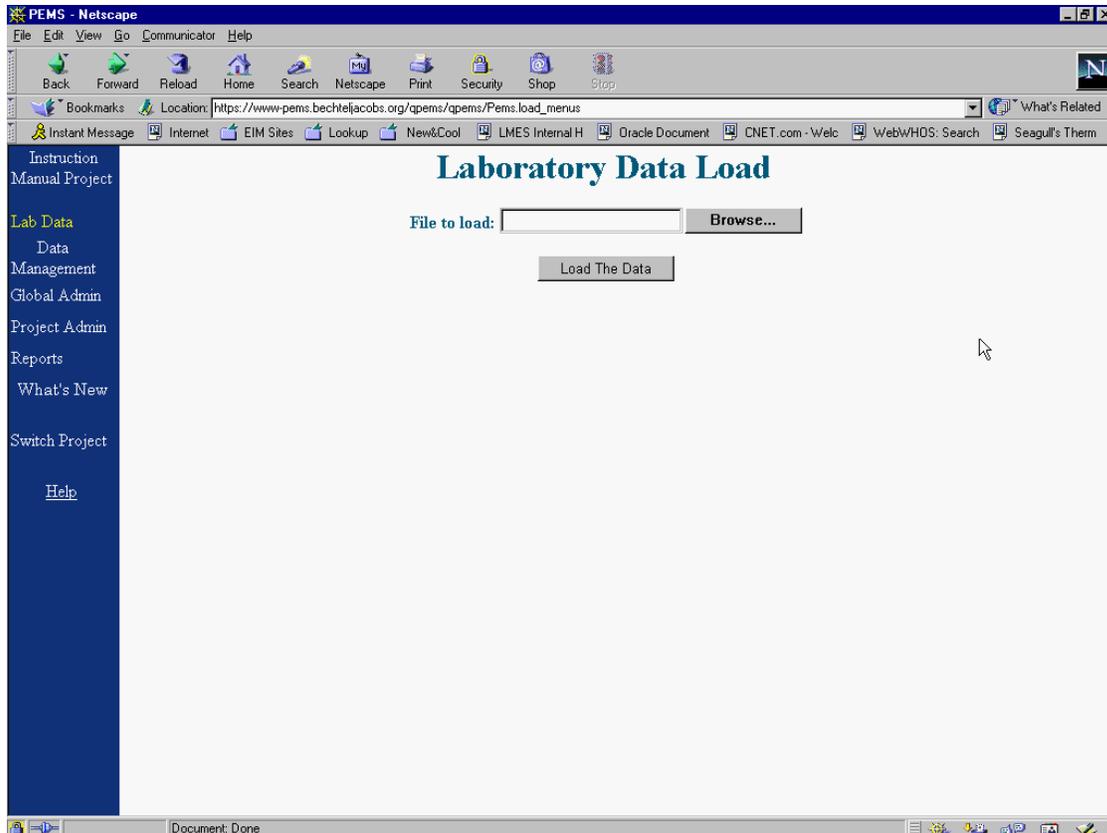
By clicking the EDD Data File History, it displays the EDD Data File History Query Screen.

By clicking the SOW Detail Information, it displays the SOW Detail Query Screen.

By clicking the Missing Analytes Report, it displays the Missing Analytes Report Query Screen.

By clicking the Project Parameter Analysis Group, it displays those Parameter Analysis Group code and description for the selected project.

Transfer and Validate EDD Data Laboratory Data Load



This screen allows the user to enter or use the Browse button to locate the filename to be loaded. Laboratories need to use the PEMS file naming convention for all files. Radiological file names must begin with an “r”, and end with the first seven characters of the batch id or SDG number. Environmental or ‘non-rad’ files must begin with an “n”, and end with the first seven characters of the batch or SDG number.

By clicking the *Load The Data* button, it processes data validation depending on various data file type. If there is any fatal error, it displays the Consistency Check Results Data Screen for a given data file type.

Consistency Check Results Data Screen (Error Message)

The screenshot shows a Netscape browser window with the following content:

- Browser title: PEMS - Netscape
- Location: https://www-pems.bechteljacobs.org/qpems/qpems/Pems.load_menus
- Page title: Consistency Check Radiological Results Data
- Database name: L0016621
- Main Menu button
- File: C:\Working\0023243.res
- Message: You have fatal errors that must be corrected
- Cartoon illustration of a man in a uniform looking distressed.
- Table of error details:

Record #	Field	Error	Error/Warning
1	TSKREFADD	No LCOC for Client Sample ID Search	Fatal
2	TSKREFADD	No LCOC for Client Sample ID Search	Fatal
2	Total Strontium	Nonstandard Analyte Name	Warning
3	TSKREFADD	No LCOC for Client Sample ID Search	Fatal
4	TSKREFADD	No LCOC for Client Sample ID Search	Fatal

This screen shows the file type is radiological and the data file contains errors.

PEMS will validate the data in the file for correctness. The system will let the laboratory know the error and the row where the error occurred. There are two error categories, Warning and Fatal. Fatal errors mean that the data will not load until those errors are corrected. Warning errors mean that the system will ignore those errors and the system can proceed to load if the user chooses to load.

Consistency Check Results Data Screen (Validation Passed)

The screenshot shows a Netscape browser window titled "PEMS - Netscape". The address bar contains the URL "https://www-pems.bechteljacobs.org/qpems/qpems/Pems.load_menus". The page content is as follows:

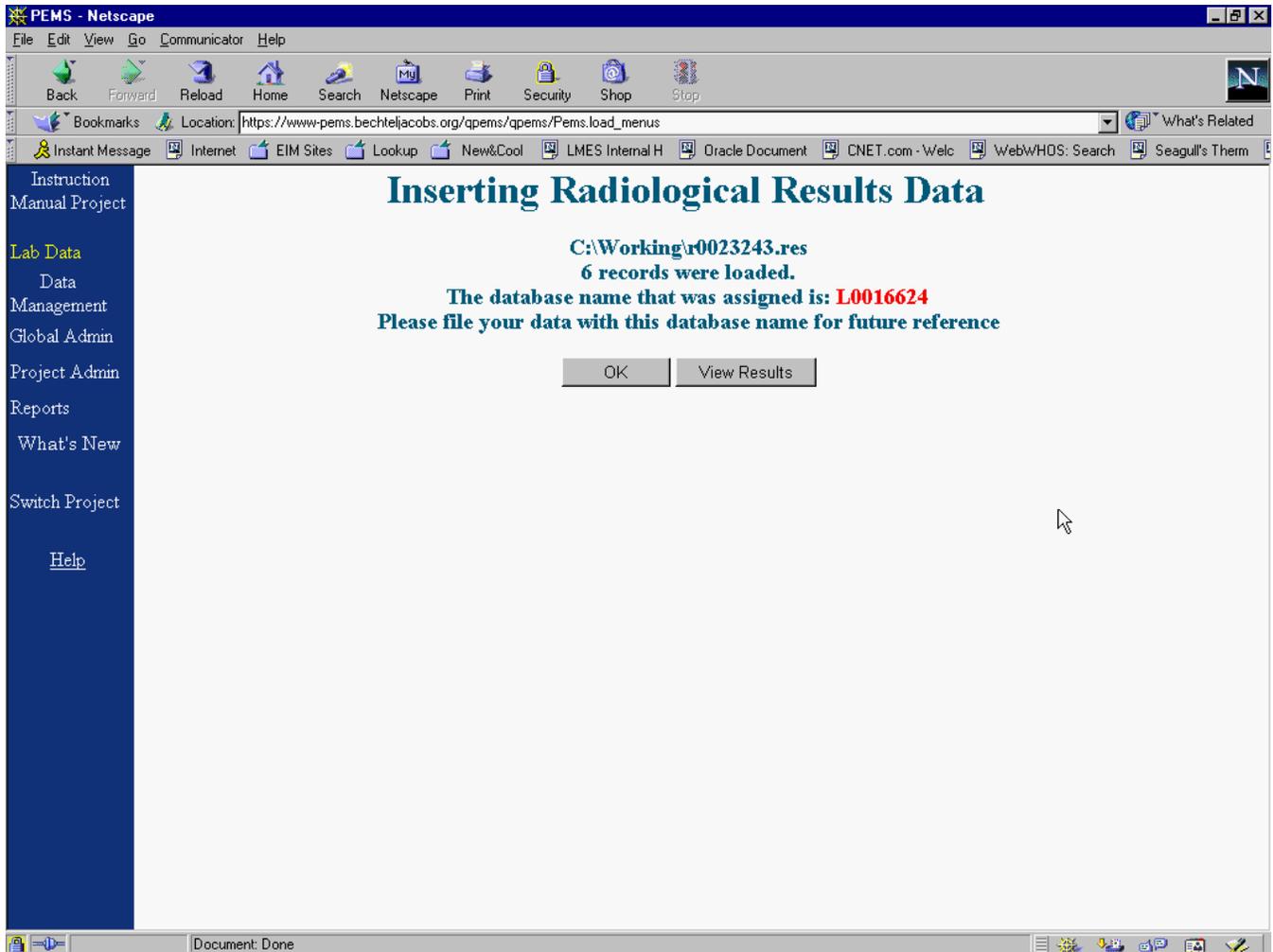
- Navigation Menu (Left):** Instruction Manual Project, Lab Data, Data Management, Global Admin, Project Admin, Reports, What's New, Switch Project, Help.
- Main Content:**
 - Consistency Check Radiological Results Data
 - Database name: L0016624
 - Main Menu (button)
 - File: C:\Working\0023243.res
 - Large "Congratulations!" graphic with confetti.
 - Save Data To Database (button)
- Summary Table:**

2	Total Strontium	Nonstandard Analyte Name	Warning
No Fatal Errors!			

This screens shows the data in a file is correctly validated and the system will allow the data to load into PEMS. If the data is not saved, the data will not load into PEMS.

By clicking the *Save Data to Database* button, it saves the validated data into PEMS database and displays the Inserting Results Data Screen for a given data file type.

Inserting Results Data Screen

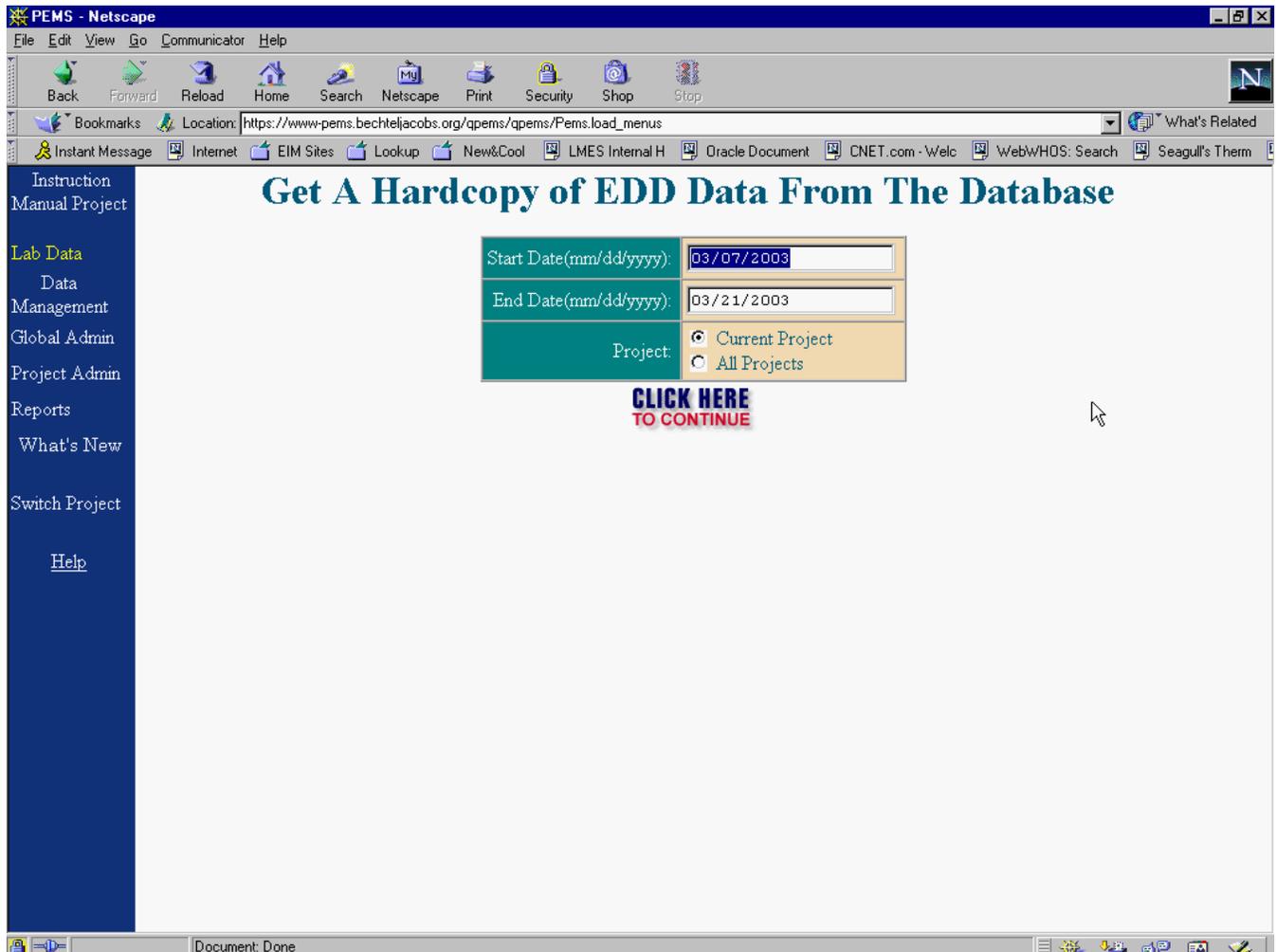


This screen shows the number of records is loaded into PEMS and a database name is assigned for the data file.

By clicking the *OK* button, it returns to the Laboratory Data Load Query Screen.

By clicking the *View Results* button, it displays a list of records being loaded into PEMS.

Get a Hardcopy of EDD Data From the Database Query Screen



This screen allows the users to retrieve a copy of a EDD file. The user can retrieve data from the current or all projects with access privilege. The default date range is two weeks and it can be modified. By clicking the Continue icon, it displays the Get a hardcopy of EDD Data from the Database List Screen.

Get a Hardcopy of EDD Data From the Database List Screen

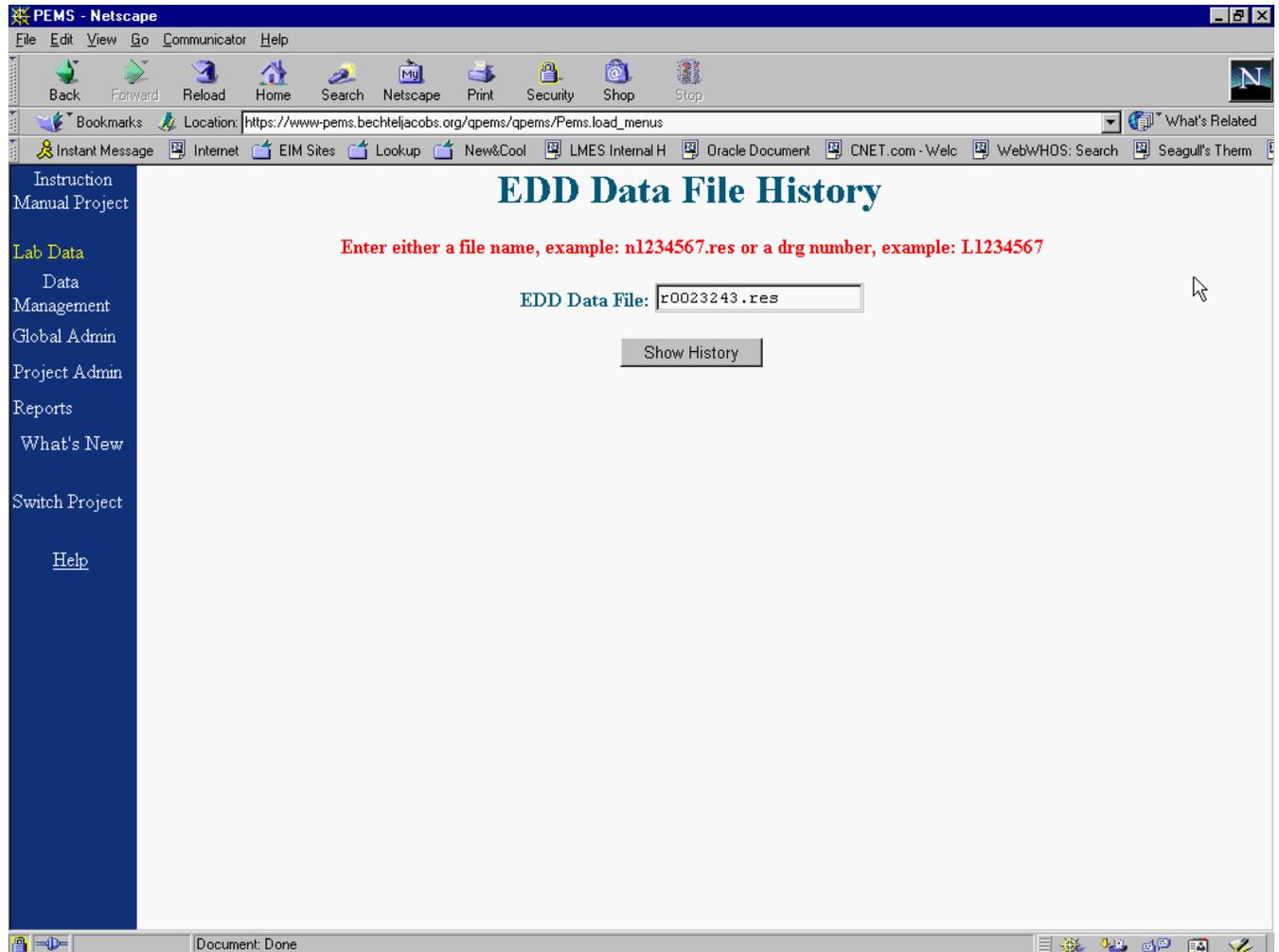
The screenshot shows a Netscape browser window with the following details:

- Browser: PEMS - Netscape
- Location: https://www-pems.bechteljacobs.org/qpens/qpens/Pems.load_menus
- Page Title: Get A Hardcopy of EDD Data From The Database Project: INSTMAN
- Table: Data Files

Date Loaded	Database Name	Original File Name - Project - SOW Number(s)	File Type	Userid
Friday - 03/21/2003 05:47 pm	L0016624 Inserted	C:\Working\0023243.res - INSTMAN - BKET01320	Rad Results	QA
Friday - 03/21/2003 05:45 pm	L0016623 Not Inserted	C:\Working\0023243.res - INSTMAN	Rad Results	QA
Friday - 03/21/2003 05:43 pm	L0016622 Not Inserted	C:\Working\0023243.res - INSTMAN	Rad Results	QA
Friday - 03/21/2003 05:31 pm	L0016621 Not Inserted	C:\Working\0023243.res - INSTMAN	Rad Results	QA
Friday - 03/21/2003 04:52 pm	B0016620 Not Inserted	C:\Working\B0039412.html - INSTMAN	Sample	QA
Friday - 03/21/2003 04:47 pm	B0016619 Not Inserted	C:\Working\B0039412.html - INSTMAN	Sample	QA
Friday - 03/21/2003 04:46 pm	B0016618 Not Inserted	C:\Working\B0039412.html - INSTMAN	Sample	QA
Friday - 03/21/2003 04:44 pm	B0016617 Not Inserted	C:\Working\B0039412.html - INSTMAN	Sample	QA
Friday - 03/21/2003 04:42 pm	B0016616 Not Inserted	C:\Working\B0039412.html - INSTMAN	Field	QA

This screen displays a list of files according to the given query. To retrieve a file, click the desired database name. The PC window will appear asking for the directory to keep the file. The filename can be changed at this time. Clicking the “Save” button will save the file to the selected directory.

EDD Data File History Query Screen



This screen allows the user to retrieve historical file information by entering the file name or DRG number. By clicking the Show History button, it displays the History of Data File List Screen according to the given query.

History of Data File List Screen

History of Data File: R0023243.RES

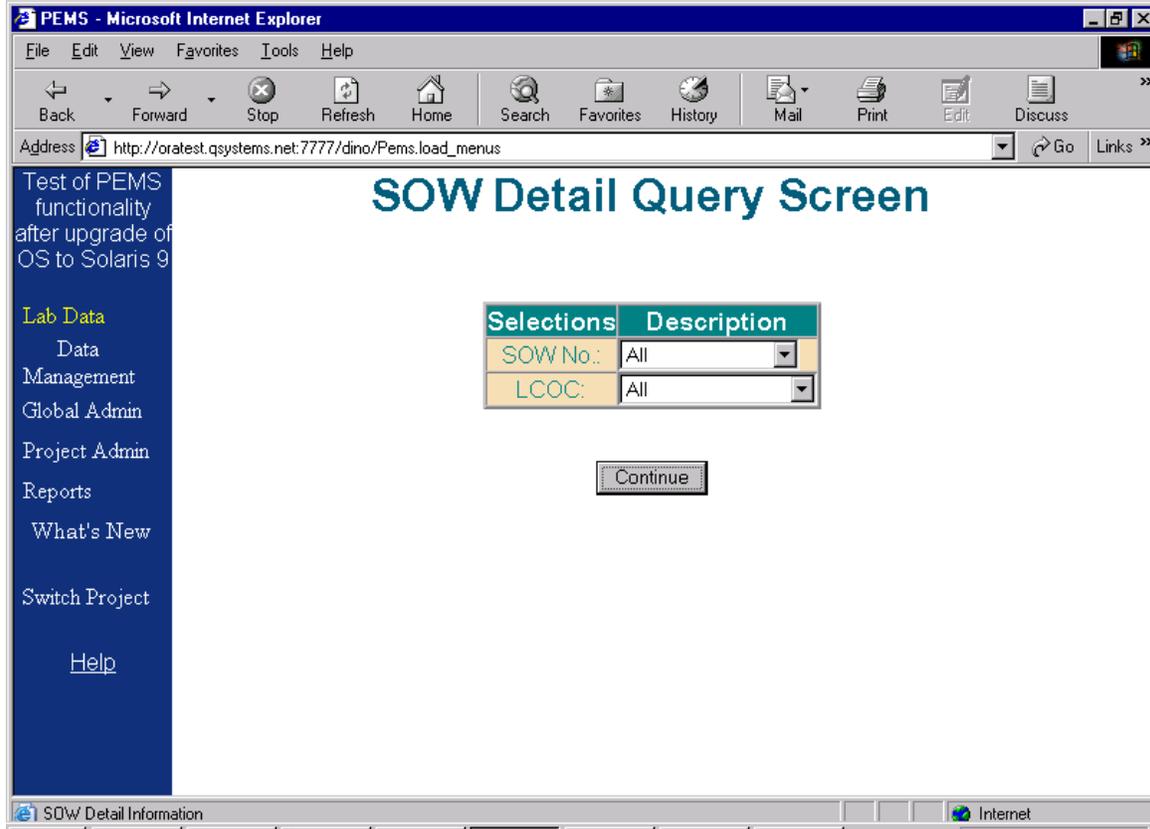
**CLICK HERE
TO CONTINUE**

Current File Information				
DRG No.	Inserted	Date Inserted	If Verified	General Info
L0016624	Inserted	03/21/2003 05:47 pm	UNLOCK	Errors: No Errors File Type: Rad Results Lab: DCSL Original Name: C:\Working\r0023243.res Project: INSTMAN Statement Of Work: BKET01320 Userid: QA
L0016623	Not loaded			Errors: Errors File Type: Rad Results Lab: THEROR Original Name: C:\Working\r0023243.res Project: INSTMAN Userid: QA EDD Date: 03/21/2003 05:45 pm
L0016622	Not loaded			Errors: Errors File Type: Rad Results Lab: THEROR Original Name: C:\Working\r0023243.res Project: INSTMAN Userid: QA EDD Date: 03/21/2003 05:43 pm
L0016621	Not loaded			Errors: Errors File Type: Rad Results

This screen displays a list of Current file Information and File Resubmission Information (not shown) according to the given query. The Current file Information listing shows the DRG number, inserted status, the date of file was inserted if any, verified status and general information about the file. The File Resubmission Information listing shows Project, Old DRG No, New DRG No, Old File Name, New File Name, Date Resubmitted and User.

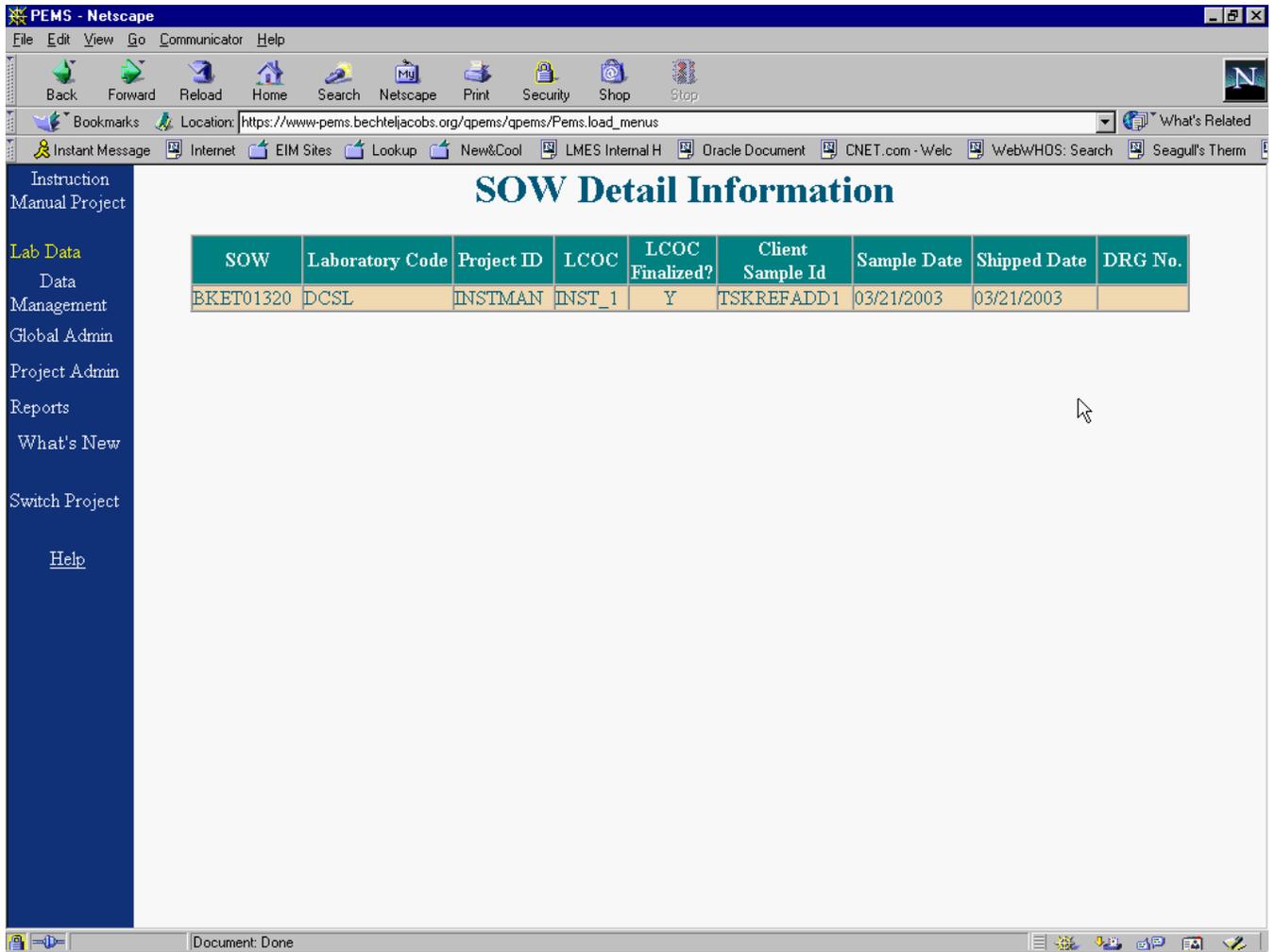
By clicking the Continue icon (not shown), it returns to Lab Data Main Screen.

SOW Detail Query Screen



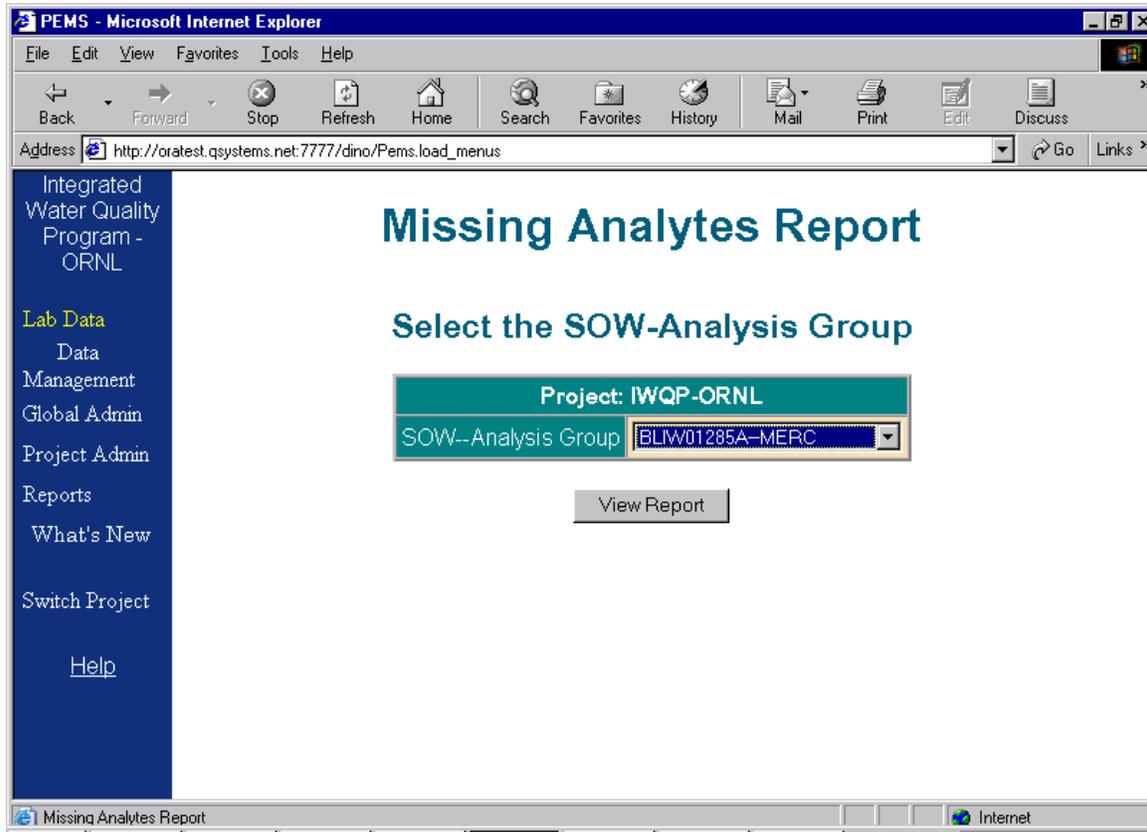
This screen allows the user to select desired SOW No and LCOC for SOW Detail Information. By clicking the *Continue* button, it displays the SOW Detail Information Screen.

SOW Detail Information Screen



This screen displays the SOW detail information according to the given query.

Missing Analytes Report Query Screen



This screen allows the user to select all or a particular SOW-Analysis Group to display the missing analytes. By clicking the *View Report* button, it displays the Missing Analytes Report.

Missing Analytes Report

Integrated Water Quality Program - ORNL

Lab Data

Data Management

Global Admin

Project Admin

Reports

What's New

Switch Project

Help

Missing Analytes Report

Project: IWQP-ORNL

CLICK HERE TO CONTINUE

SOW	Sample ID	Sample Date	Sample Matrix	Analysis Group	Missing Analysis Method	Missing Analyte	Analysis Type
BLIW01285A	W05191	10/03/2000	Surface Water	MERC	SW846-7470	Mercury	METAL

CLICK HERE TO CONTINUE

Missing Analytes Report

Internet

The 'Missing Analyte Report' gives an overview of any missing analytes for a particular Parameter Analysis Group for the current project. This is helpful for large projects with samples having several methods and multiple analytes being performed.

By clicking the Continue icon, it returns to the Missing Analytes Report Query Screen.

Missing Analytes Report

Test of PEMS functionality after upgrade of OS to Solaris 9

Lab Data
Data
Management
Global Admin
Project Admin
Reports
What's New
Switch Project
Help

Missing Analytes Report

Project: UPGRADEOS

CLICK HERE TO CONTINUE

SOW	Sample ID	Sample Date	Sample Matrix	Analysis Group	Missing Analysis Method	Missing Analyte	Analysis Type
No records found.							
Either no analytes are missing or the comparison information could not be found in the Tracker system.							
CLICK HERE TO CONTINUE							

This screen displays message when no data is found.

By clicking the Continue icon, it returns to the Missing Analytes Report Query Screen.

Project Parameter Analysis Group Main Screen

Analysis Group(s) Currently Assigned To This Project	
Analysis Group Code	Analysis Group Name
B-GAMMA137	BIOTA - Gamma (Cs-137)
B-METPCBL	BIOTA - ICP trace metals suite, PCBs, Lipids
B-METPLP	BIOTA - ICP trace metals suite, PCBs, Lipids, Pesticides
B-PCB&LIP	BIOTA - PCBs and Lipids
B-PPCB&LIP	BIOTA - Pesticides, PCBs, and Lipids
BCW1-RAD05	GAB;Am-241,Np-237>Total Ra>Total radioactive Strontium,Tc-99;U-234,U-235,U-238
BCW12RAD05	GAB; Tc-99, U-234,U-235,U-238; Gamma (Cs-137,Co-60,K-40); Sr-90
BMET1,4	BIOTA - ICP Trace metals & Uranium
BMET1,4PCB	BIOTA - ICP Trace metals, Uranium, & PCBs
BMET2	BIOTA - Total Mercury
BMET2,3	BIOTA - Total Mercury & Methyl Mercury
CRS6-RAD05	GAB;Gamma(Cs-137,Co-60,K-40);Sr-90;Tc-99;U-234,U-235,U-238
FIL-MET/HG	Filtered - Metals (ICP Trace) & Mercury
GAB	Gross Alpha, Gross Beta
GAB-SR-U	Gross Alpha/Beta, Strontium-90, U-234, U-235, U-238
GAB-TC	Gross Alpha/Beta; Tc-99
GAB-TC-U	Gross Alpha/Beta; Tc-99; U-234, U-235, U-238
GAB-U	Gross alpha/beta; U-234,U-235,U-238
GAB-PCB&LIP	GAB;Gamma(Cs-137,Co-60,K-40);Sr-90;Tc-99;U-234,U-235,U-238

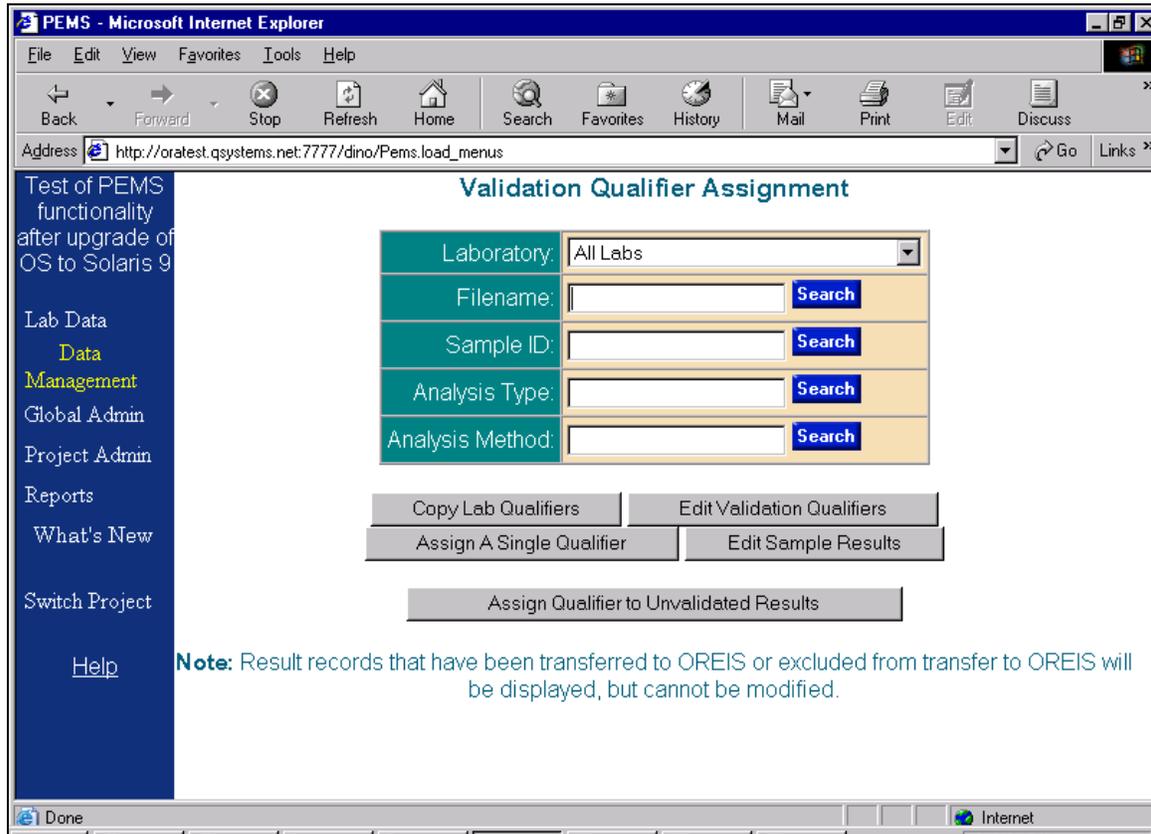
Data Management Main Screen (Part 2)

Analytical Data



The Analytical Data section on the Data Management Main Screen is used by data validators to assign validation qualifiers, apply data assessment codes, lock results after validation and edit sample results, if needed.

Validation Qualifier Assignment Main Screen



This screen allows the user to perform various function applied to the qualifiers. The *Search* buttons provides a pop-up window with a list of available values for each Filename, Sample ID, Analysis Type and analysis Method. The user can select an available value and it will be populated back on this screen at the appropriate input field.

By clicking the *Copy Lab Qualifiers* button, it displays the Copy Sample Result Qualifier Screen.

By clicking the *Edit Validation Qualifiers* button, it displays the Sample Result Validation Qualifier Screen.

By clicking the *Assign A Single Qualifier* button, it displays the Assign Valid Qualifier and Reason Code Screen.

By clicking the *Edit Sample Results* button, it displays the Sample Results Screen.

By clicking the *Assign Qualifier to Unvalidated Result* button, it displays the Assign Valid Qualifier and Reason Code screen.

Copy Sample Result Qualifier Screen (Copy Lab Qualifiers)

Test of PEMS functionality after upgrade of OS to Solaris 9

NOTE: Only Lab Qualifiers that match OREIS validation qualifiers are subject to the copy function. Blank Lab Qualifiers will be converted to the " = " validation qualifier

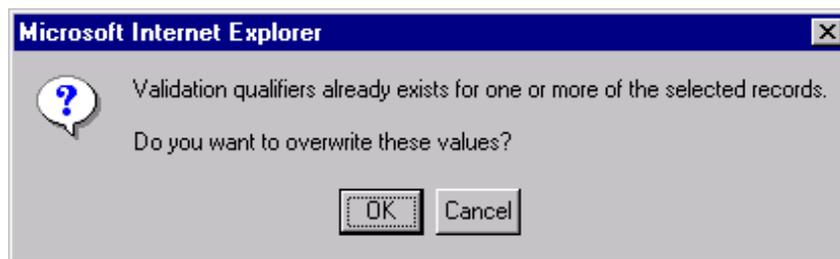
Copy Sample Result Qualifier

Project: UPGRADEOS
Lab Code: ORNLIT File Name: All
Sample ID: All Analysis Type: All
Analysis Method: All

Select	Lab Qualifier	Qualifier Class	Sample ID	Analysis Method ID	Parameter	Result	Unit	Use Flag	Replicate Number	Validation Qualifier
<input type="checkbox"/>			SECTEST2	CLP-OLM03.1	1,2-Dichloroethane-d4	104	%	Y	0	
<input type="checkbox"/>	N	VOA	SECTEST2	CLP-OLM03.1	Acetone	10	UG/L	Y	0	
<input type="checkbox"/>	N	VOA	SECTEST2	CLP-OLM03.1	Acetone	10	UG/L	Y	0	N
<input type="checkbox"/>	N	VOA	SECTEST2	CLP-OLM03.1	Acetone	10	UG/L	Y	0	N
<input type="checkbox"/>			SECTEST2	CLP-OLM03.1	Bromofluorobenzene	102	%	Y	0	
<input type="checkbox"/>	U	VOA	SECTEST2	CLP-OLM03.1	Carbon tetrachloride	5	UG/L	Y	0	
<input checked="" type="checkbox"/>	U	VOA	SECTEST2	CLP-OLM03.1	Carbon tetrachloride	5	UG/L	Y	0	
<input type="checkbox"/>	U	VOA	SECTEST2	CLP-OLM03.1	Carbon tetrachloride	5	UG/L	Y	0	

Lab qualifier is assigned by the laboratory in the AMSED EDD.

This screen allows the user to copy the lab qualifier value into the validation qualifier field by selecting the checkbox(es) and clicking the Continue icon (not shown). If the validation qualifier already exists, a pop-up window will confirm the copy action. If the OK button is clicked, it processes the copy action and returns to Validation Qualifier Assignment Main Screen.



Sample Result Validation Qualifier Screen (Edit Validation Qualifiers)

Instruction Manual Project

Lab Data

Data Management

Global Admin

Project Admin

Reports

What's New

Switch Project

Help

Sample Result Validation Qualifier

Project: INSTMAN
Lab Code: DCSL File Name: R0023243.RES
Sample ID: TSKREFADD1 Analysis Type: All

[Click here to display the list of Validation Qualifiers](#)

[Click here to display the list of Reason Codes](#)

Sample ID	Analysis Method	Lab Sample ID	Parameter	Lab Qualifier	Validation Qualifier	Reason Code	Result	Unit	Use Flag	Replic. Num
TSKREFADD1	RAD-TC-99 BY LSC	03-02093-04	Technetium-99	—	=		297.26	PCIL	Y	0
TSKREFADD1	RAD-TOTAL SR BY BETA	03-02093-04	Radioactive Strontium (Total)	—			7.88	PCIL	Y	0
TSKREFADD1	RAD-U ISO BY ALPHA	03-02093-04	Uranium-233/234	—			42.87	PCIL	Y	0
TSKREFADD1	RAD-U ISO BY ALPHA	03-02093-04	Uranium-235	—			14.25	PCIL	Y	0
TSKREFADD1	RAD-U ISO BY ALPHA	03-02093-04	Uranium-236	—			1.68	PCIL	Y	0
TSKREFADD1	RAD-U ISO BY ALPHA	03-02093-04	Uranium-238	—	=		100.91	PCIL	Y	0

CLICK HERE TO CONTINUE

This screen the user to edit validation qualifiers and reason codes for each individual analyte results.

By clicking the *Click here to display the list of Validation Qualifiers*, it pops up a window with a list of available validation qualifiers.

By clicking the *Click here to display the list of Reason Codes*, it pops up a window with a list of available reason codes.

By clicking any displayed Lab Qualifier value, it displays the Laboratory Qualifier Screen for selection.

By clicking the Continue icon, it saves the information and returns to the Validation Qualifier Assignment Main Screen.

Validation Qualifiers Pop-up Screen

The screenshot shows a Netscape browser window with the URL https://www-pems.bechteljacobs.org/qpems/qpems/Pems.load_menus. The main page is titled "Sample Result Validation Qualifier" for "Project: INSTMAN". A pop-up window titled "Validation Qualifiers" is open, displaying a table of validation qualifiers.

Qualifier	Description	Use Flag	Replication Number
=	Validated result, which is detected and unqualified		
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.		
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."	L Y	0
NJ	Presumptively present at an estimated quantity (use with TICs only).	L Y	0
R	The sample results are unusable		
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.	L Y	0
UJ	Analyte, compound or nuclide not detected above the reported detection limit, and the reported detection limit is approximated due to quality deficiency.	L Y	0
XV	Not validated; Refer to the RSLTQUAL field which may contain more information	L Y	0
XX	Unknown; Refer to the RSLTQUAL field which may contain more information		
XZ	Data evaluation performed; Validation qualifiers not applied; Refer to the RSLTQUAL field which may contain more information	L Y	0

A drop down list of available validation qualifiers is displayed.

Reason Code Pop-up Screen

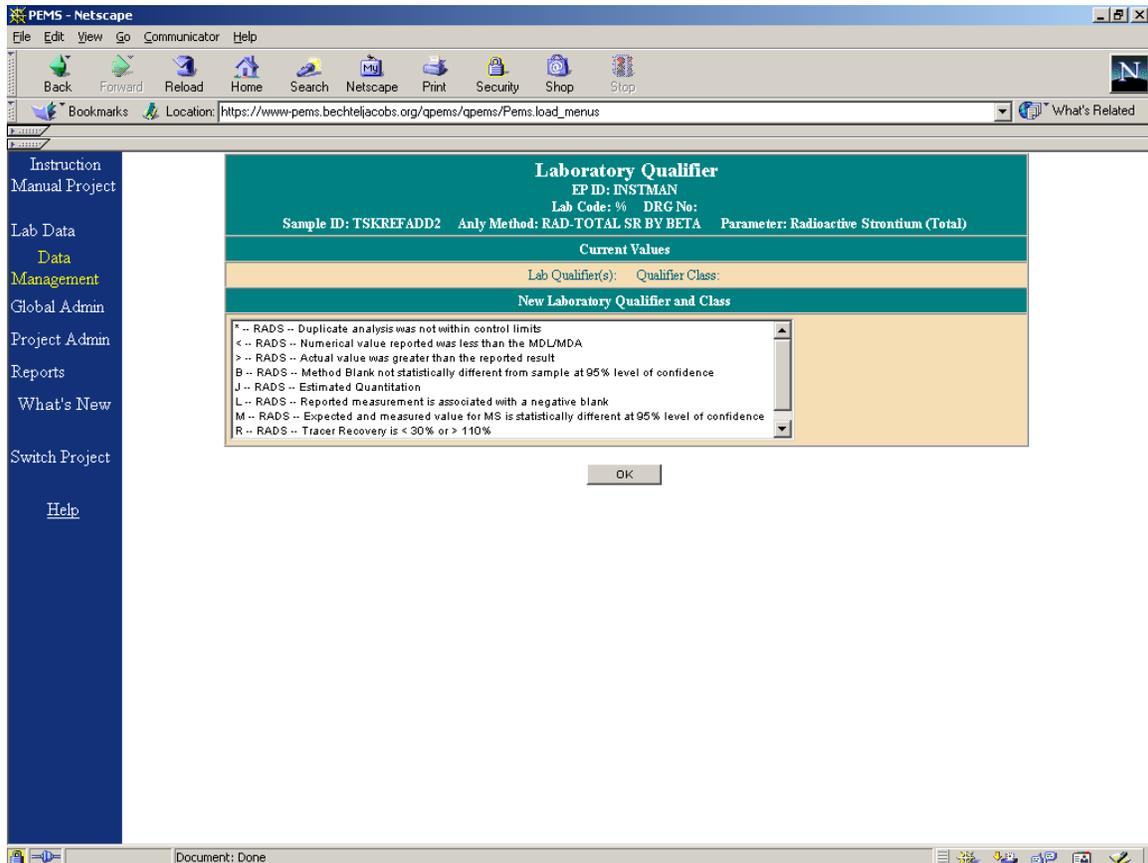
The screenshot shows a Netscape browser window with a pop-up titled "Reason Codes". The pop-up contains a table with the following data:

Reason Code	Description
A01	Extraction holding times were exceeded.
A02	Extraction holding times were grossly exceeded.
A03	Analysis holding times were exceeded.
A04	Analysis holding times were grossly exceeded.
A05	Samples were not preserved properly.
A06	Professional judgement was used to qualify the data.
B01	Mass calibration was in error, even after applying expanded criteria.
B02	Mass calibration was not performed every 12 hours.
B03	Mass calibration did not meet ion abundance criteria.
B04	Professional judgement was used to qualify the data.
B07	Blank data not reported. Validation incomplete.
C01	Initial calibration RRF was <0.05.
C02	Initial calibration RSD was >30%.
C03	Initial calibration sequence was not followed as required.
C04	Continuing calibration RRF was <0.05.
C05	Continuing calibration %D was >25%.
C06	Continuing calibration was not performed at the required frequency.
C07	Resolution criteria were not met.
C08	RPD criteria were not met.
C09	RSD criteria were not met.
C10	Retention time of compounds was outside windows.

On the right side of the pop-up, there is a table with columns for "Replicate Number" and "Dilution". The values shown are 0 and 1 for both columns, with dropdown arrows next to the 0 values.

A drop down list of available reason codes is displayed.

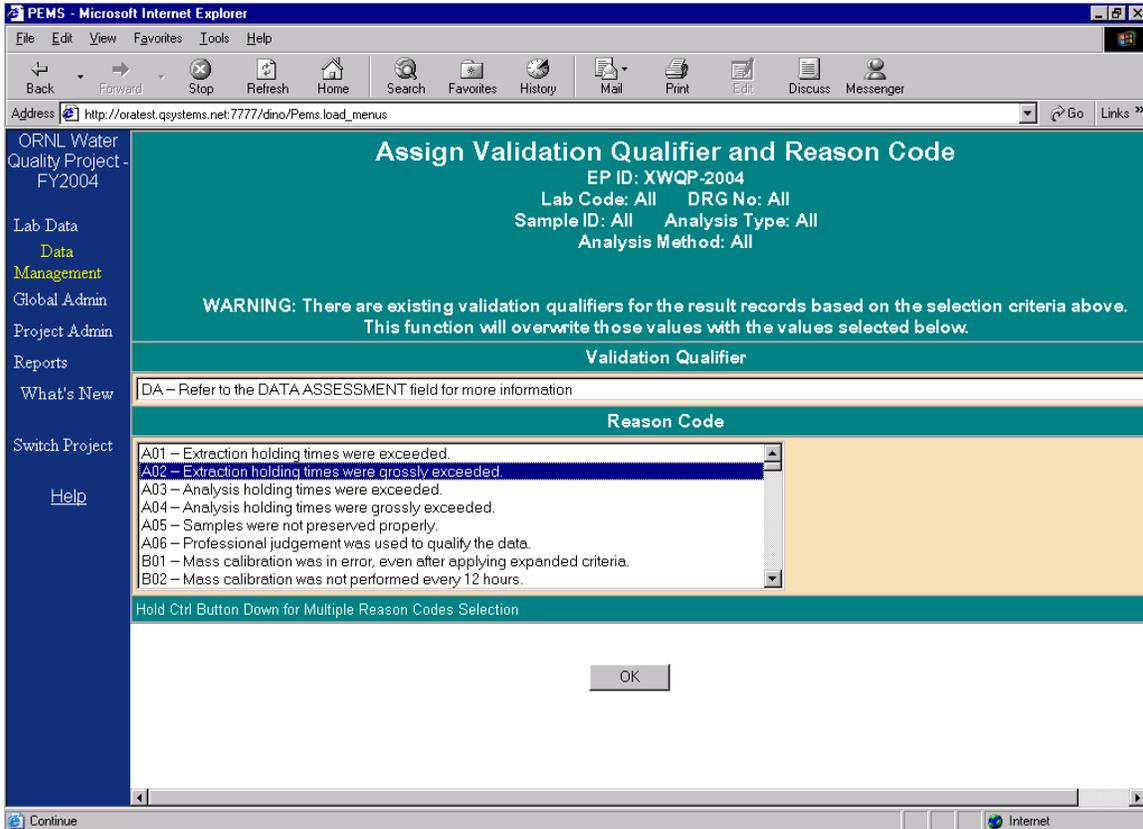
Lab Qualifiers Screen



From the 'Edit Validation Qualifier' screen, laboratory qualifiers can be changed by clicking on the lab qualifier field for a sample result.

This screen allows the user to select a valid lab qualifier for the selected sample result. By clicking the OK button, it updates the lab qualifier for the selected sample result and returns to the Edit Validation Qualifiers Screen.

Assign Validation Qualifier and Reason Code Screen (Assign A Single Qualifier)

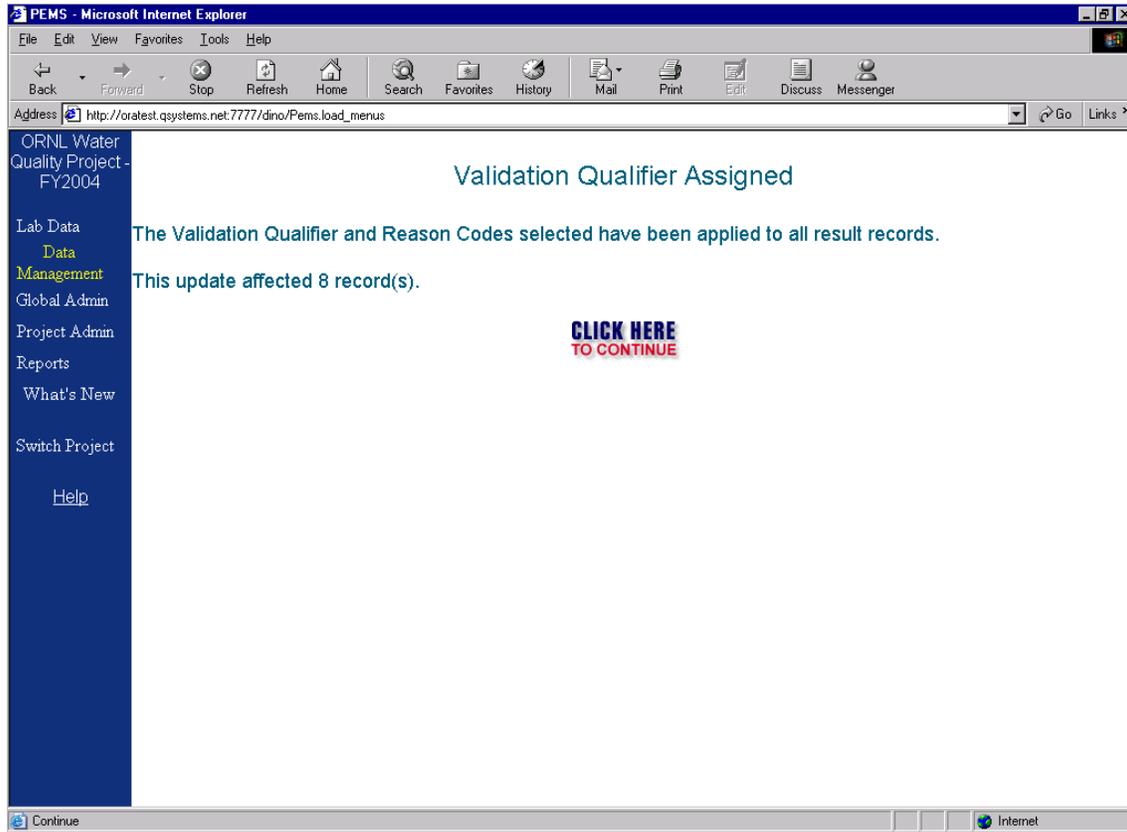


This screen allows the user to update the validation qualifier and reason code based on the selection set up on the Validation Qualifier Assignment Main Screen.

By clicking *OK* button after selecting the validation qualifier and reason code, a pop-up screen will confirm the update option and display the Validation Qualifier Assigned screen.



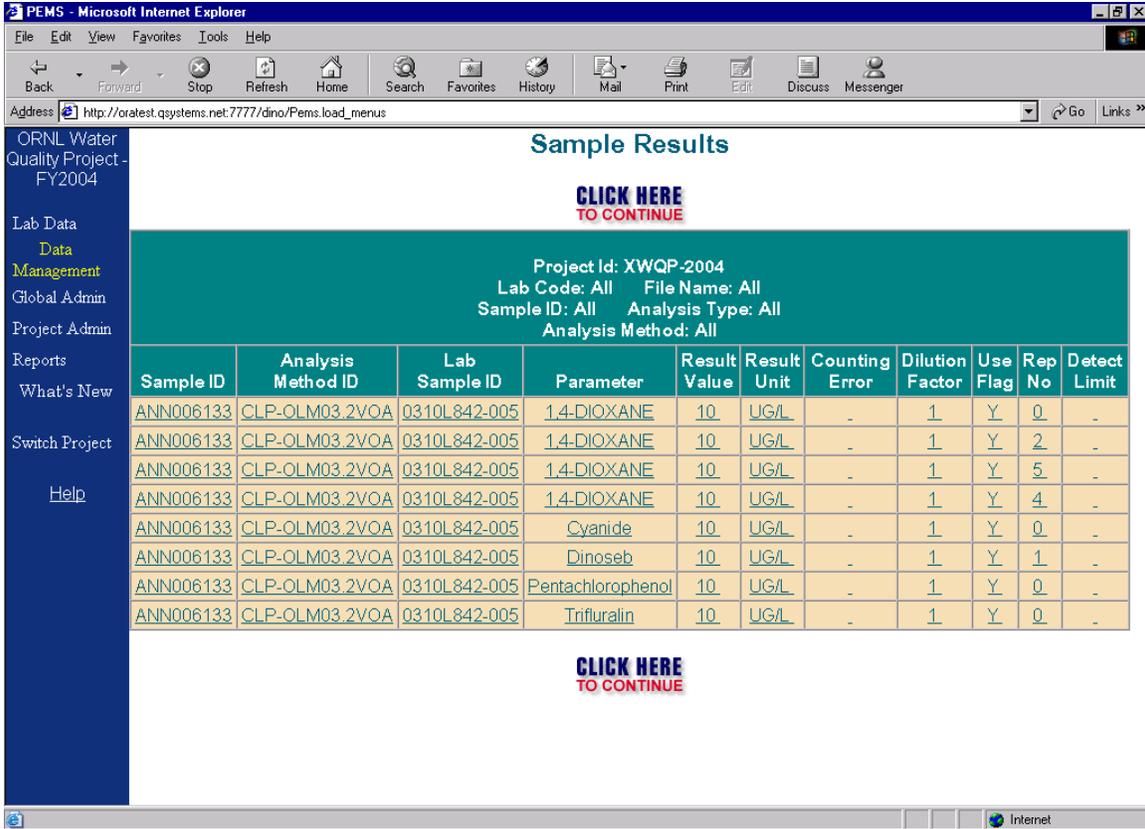
Validation Qualifier Assigned Screen



This screen is displayed with message on how many record(s) have been updated with the selected validation qualifier and reason code.

By clicking the Continue icon, it returns to the Validation Qualifier Assignment Main Screen.

Sample Results Screen (Edit Sample Results)



This screen allows the user to modify results for a selected Sample Id.

By clicking on any column for a Sample Id, it displays the Edit Sample Result Screen.

By clicking the Continue icon, it returns to the Validation Qualifier Assignment Main Screen.

Edit Sample Result Screen

PEMS - Microsoft Internet Explorer

Address: http://oratest.qsystems.net:7777/dino/Pems.load_menus

Edit Sample Result

Required fields are marked with +

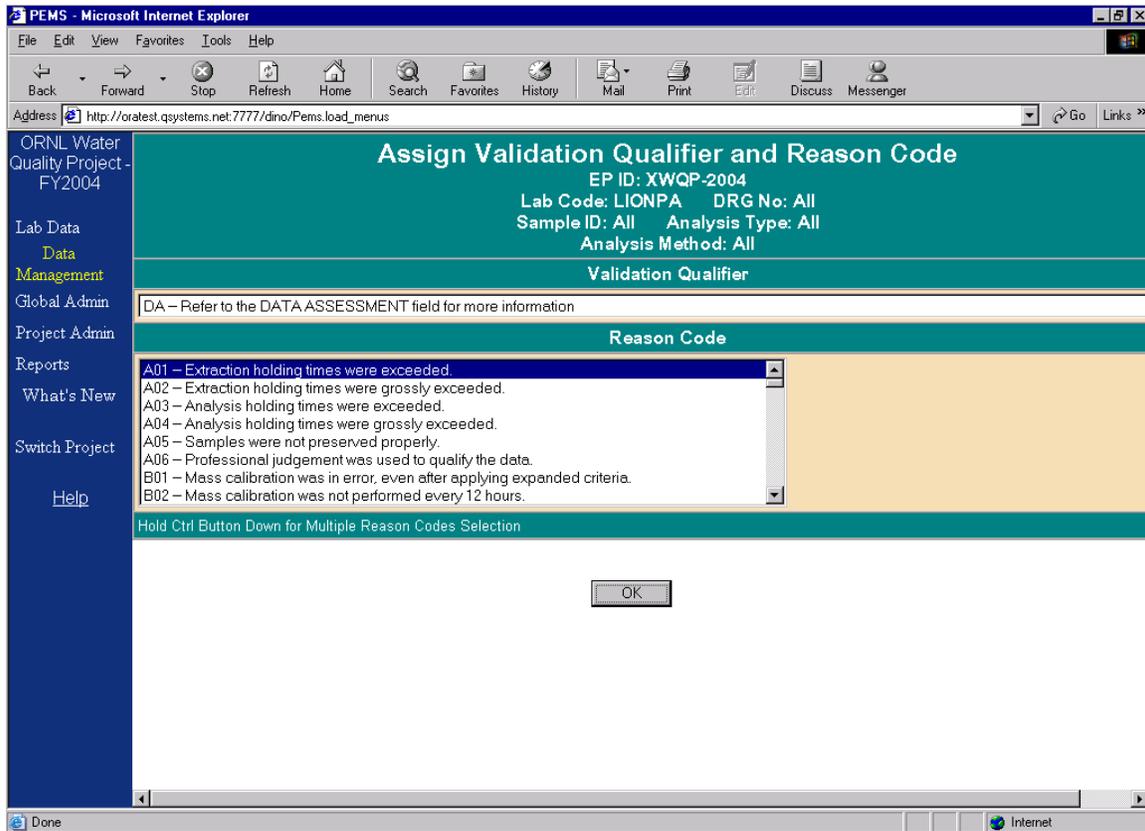
Project Id:	XWQP-2004
Lab Code:	LIONPA
File Name:	N0073004.TIC
Sample ID:	ANN006133
Parameter:	
Anly Method ID:	CLP-OLM03.2VOA
Lab Sample ID:	0310L842-005
Param Anly Group:	VOC1-FY04
Replicate Number:	0
Lab Detection Limit:	
Revision Flag:	N
General Comment:	<input type="text"/>
Revision Comment:	<input type="text"/>
Result Value:	<input type="text" value="10"/>
Result Unit:	<input type="text" value="UG/L"/>
Analysis Type:	
Counting Error:	
Dilution Factor:	<input type="text" value="1"/>
Use Flag:	<input type="text" value="Y"/>

Edit Record Internet

This screen allows the user to modify general and revision comment, result value and unit, dilution factor, and user flag.

By clicking the Continue icon (not shown), it saves the information and returns to Sample Results Screen.

Assign Valid Qualifier and Reason Code Screen (Assign Qualifier to Unvalidated Results)

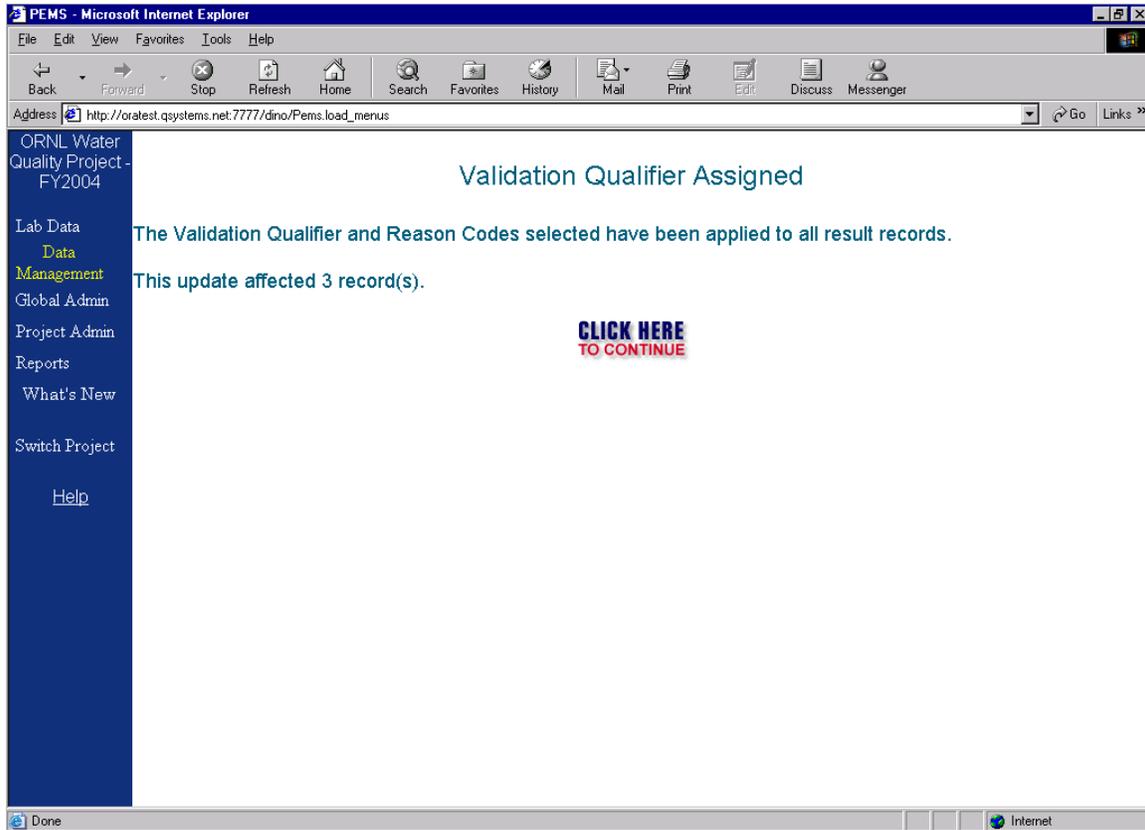


This screen allows the user to update the validation qualifier and reason code for unvalidated result based on the selection set up on the Validation Qualifier Assignment Main Screen.

By clicking *OK* button after selecting the validation qualifier and reason code, a pop-up screen will confirm the update option and display the Validation Qualifier Assigned screen.



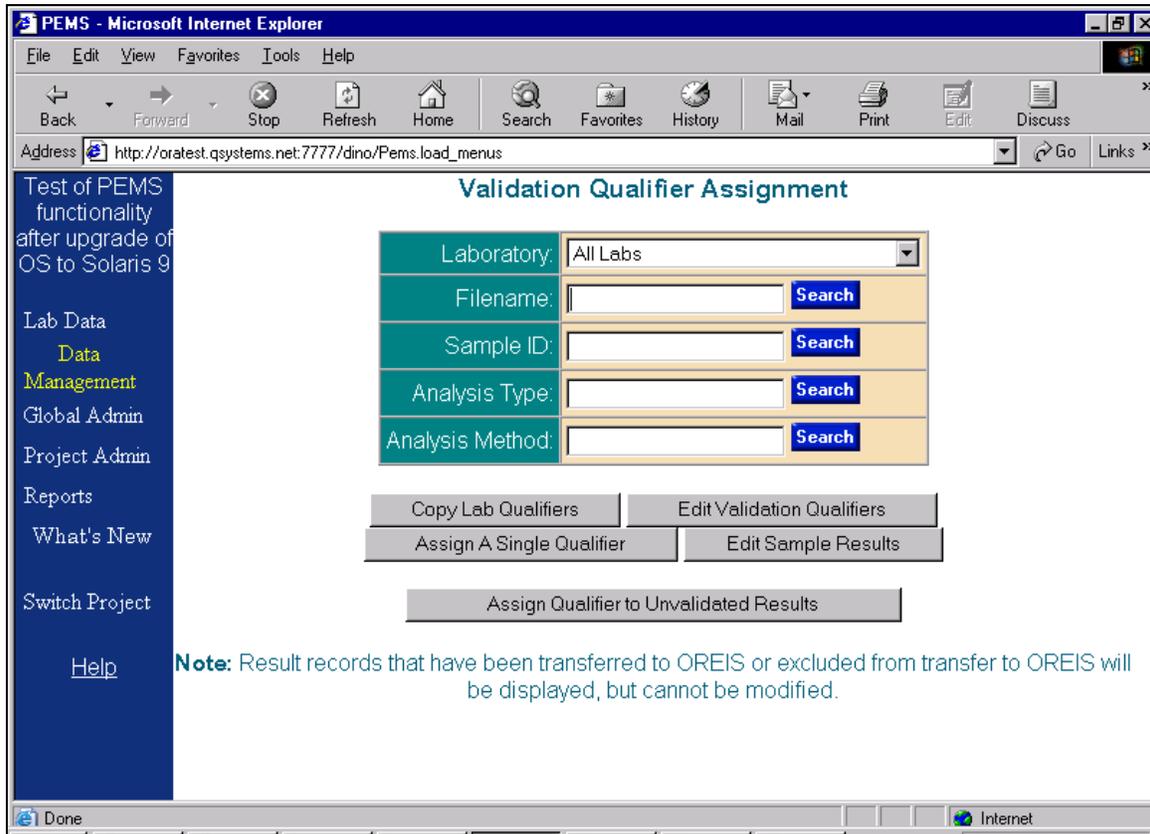
Validation Qualifier Assigned Screen



This screen is displayed with message on how many record(s) have been updated with the selected validation qualifier and reason code.

By clicking the Continue icon, it returns to the Validation Qualifier Assignment Main Screen.

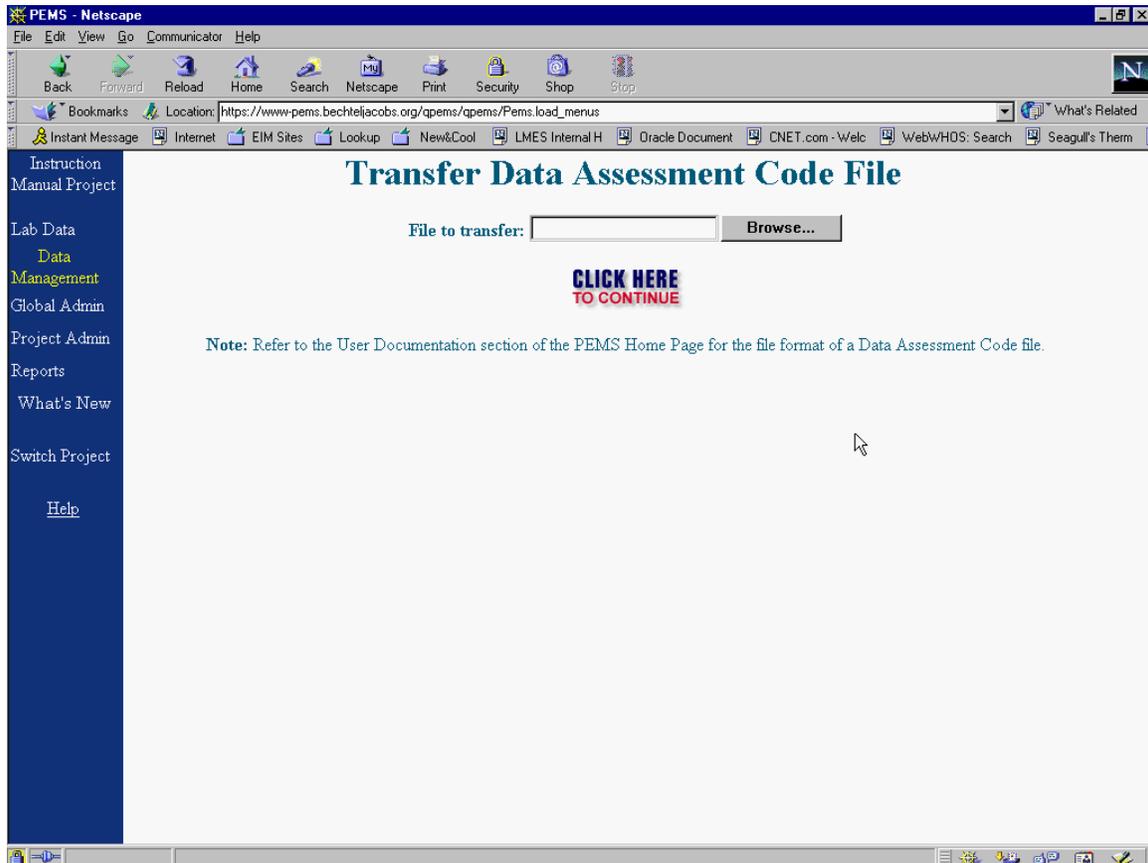
Edit Sample Result



The *Edit Sample Result* option on the Data Management Main Screen will display the Validation Qualifier Assignment Main Screen that contains the *Edit Sample Result* button.

By clicking the Edit Sample Results button, it displays the Sample Results Screen and the steps have been illustrated in the previous Validation Qualifier Assignment section.

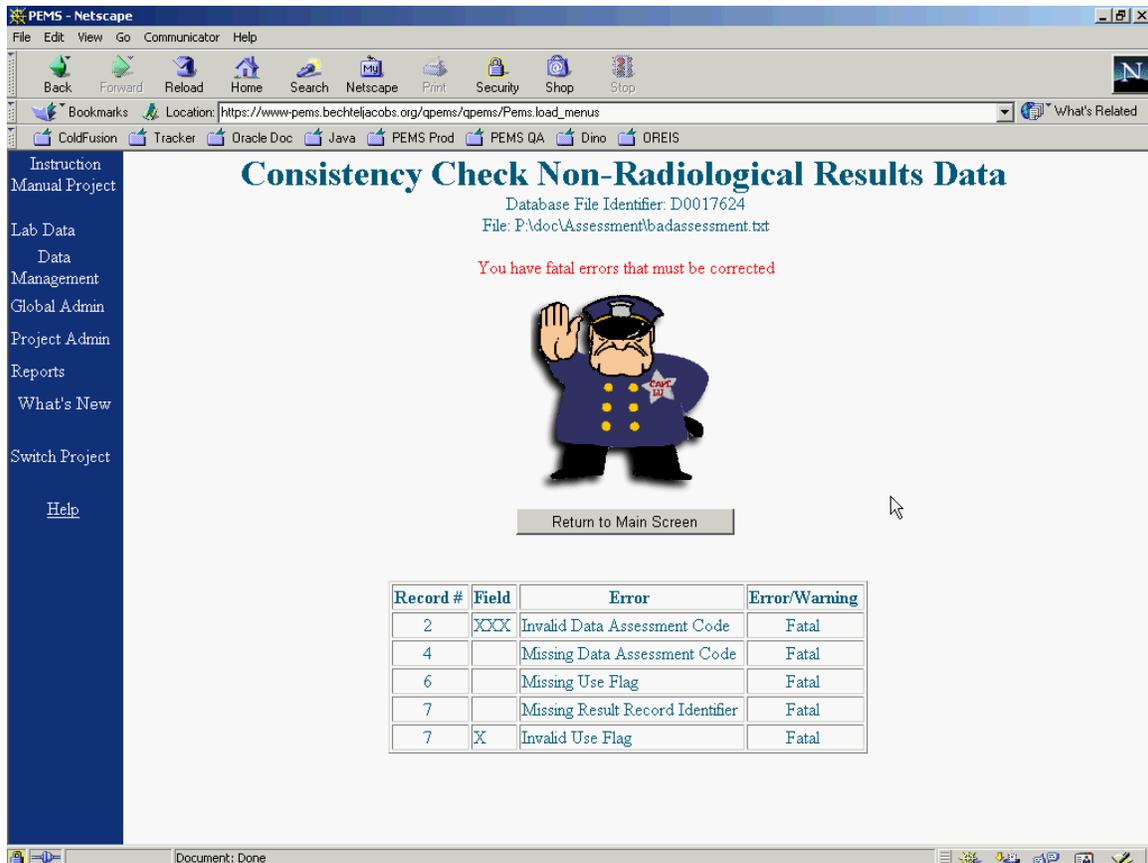
Apply Data Assessment Codes Screen



This screen allows the user to apply data assessment codes and reason codes to regular analytical results and update the use flag for these results. The data file containing the result record identifier, the data assessment code, the reason codes and the use flag. This data file is in a specified format, which can be reviewed on the PEMS Home Page.

By clicking the Continue icon after entering a filename or selecting a filename from the *Browse* button, it examines the file for invalid record identifiers, duplicated record identifiers, invalid data assessment codes, invalid reason codes and other invalid conditions.

Consistency Check Results Data Screen (Error Message)



Consistency Check Non-Radiological Results Data
Database File Identifier: D0017624
File: P:\doc\Assessment\badassessment.txt

You have fatal errors that must be corrected

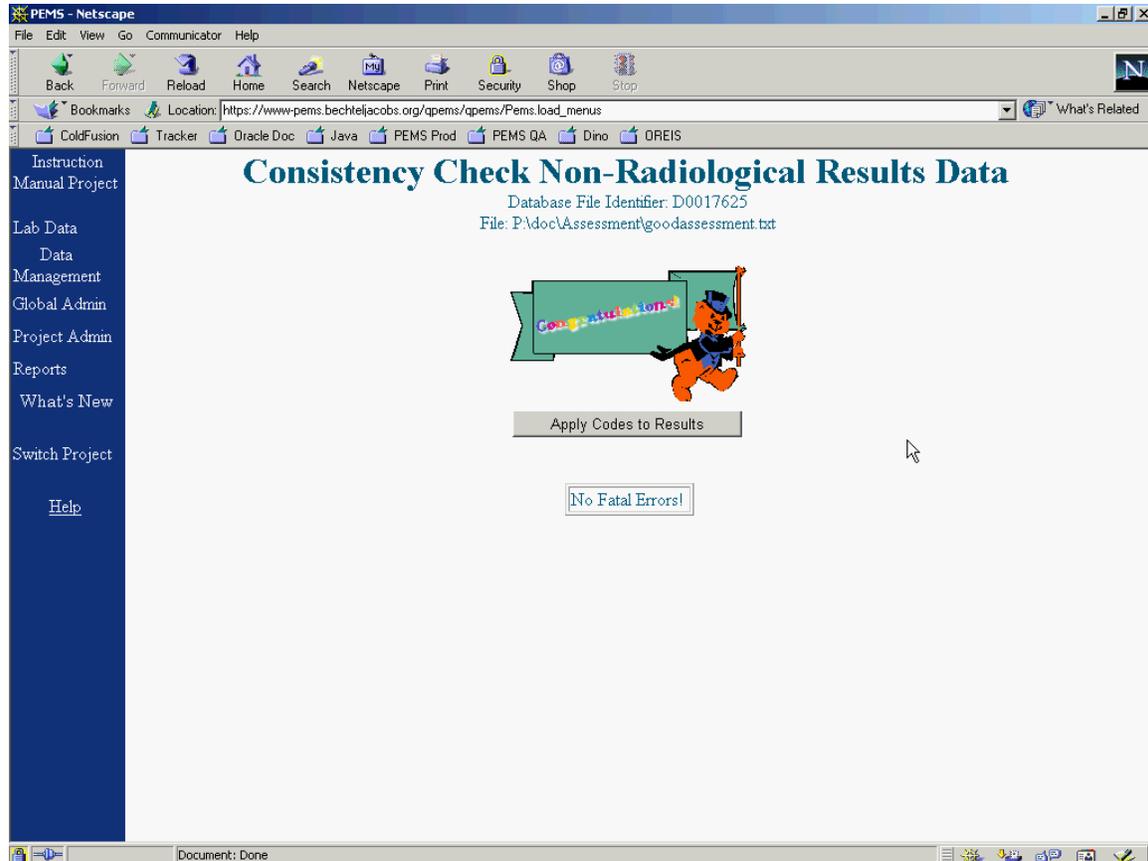


Return to Main Screen

Record #	Field	Error	Error/Warning
2	XXXX	Invalid Data Assessment Code	Fatal
4		Missing Data Assessment Code	Fatal
6		Missing Use Flag	Fatal
7		Missing Result Record Identifier	Fatal
7	X	Invalid Use Flag	Fatal

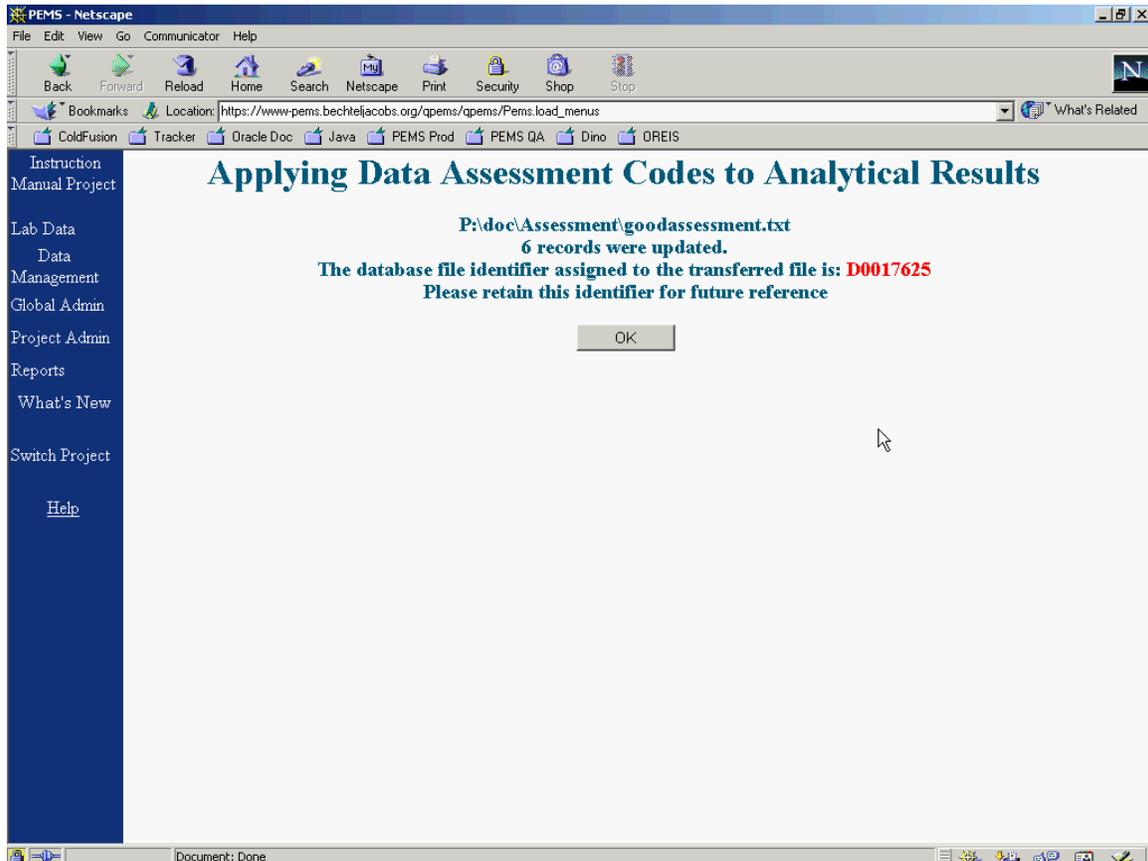
This screen is displayed if any errors are detected in the validation process. It lists the record number in the data file that contained the error, the value of the field in error and a descriptive message of the problem encountered. These errors must be resolved by correcting the submitted file. Clicking on the 'Return to Main Screen' button will return the user to the Apply Data Assessment Codes Screen.

Consistency Check Results Data Screen (Successful Message)



This screen displays a successful message if there are no errors in the file. By clicking on the 'Apply Codes to Results' button, it will apply the values listed in the data assessment file to the analytical result records. If a validation qualifier is not already assigned to these records, the validation qualifier will be updated to 'DA'.

Apply Data Assessment Codes to Analytical Results



After the analytical result records have been updated, this screen will be displayed that reports the number of records affected by the update and a unique file identifier for the data assessment file. By clicking the *Ok* button, it returns to Data Management Main Screen.

Data Assessment codes and their associated reason codes can be viewed on the Edit Validation Qualifiers screen. They can also be downloaded through the Download Sample Measurement Report.

Result/DRG Verification Query Screen

PEMS - Netscape

File Edit View Go Communicator Help

Back Forward Reload Home Search Netscape Print Security Shop Stop

Location: https://www.pems.bechteljacobs.org/qpems/qpems/Pems.load_menus

Instant Message Internet EIM Sites Lookup New&Cool LMES Internal H Oracle Document CNET.com - Welc WebWHOS: Search Seagull's Them

Instruction Manual Project

Lab Data

Data Management

Global Admin

Project Admin

Reports

What's New

Switch Project

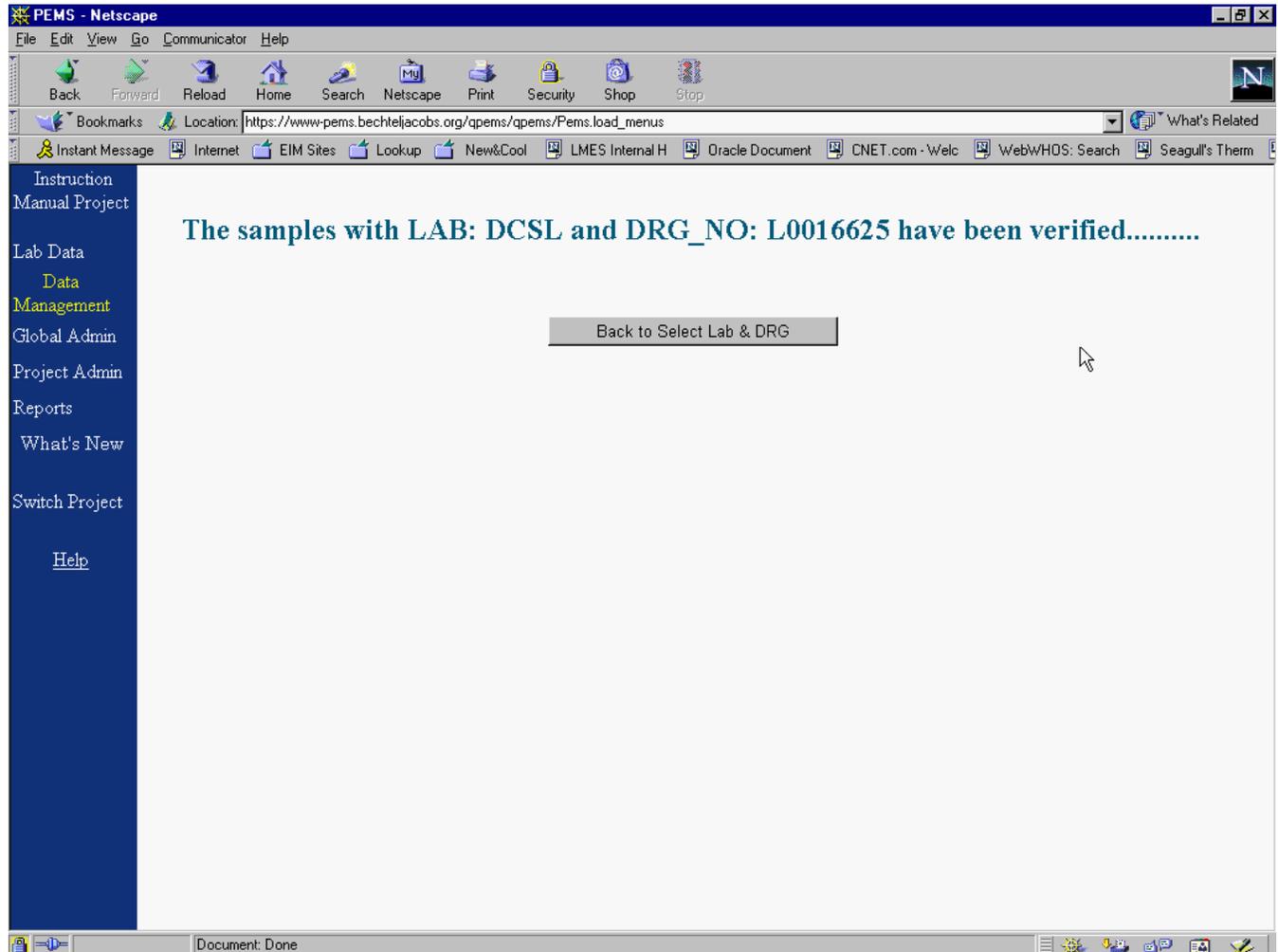
Help

Select the Laboratory & DRG No.:

Laboratory:	<input type="text" value="DCSL-DCSL"/>		
DRG No.:	<input type="text"/>	<input type="button" value="Search"/>	<input type="button" value="VERIFY"/>
Laboratory:	<input type="text"/>		
DRG No.:	<input type="text"/>	<input type="button" value="Search"/>	<input type="button" value="UNVERIFY"/>

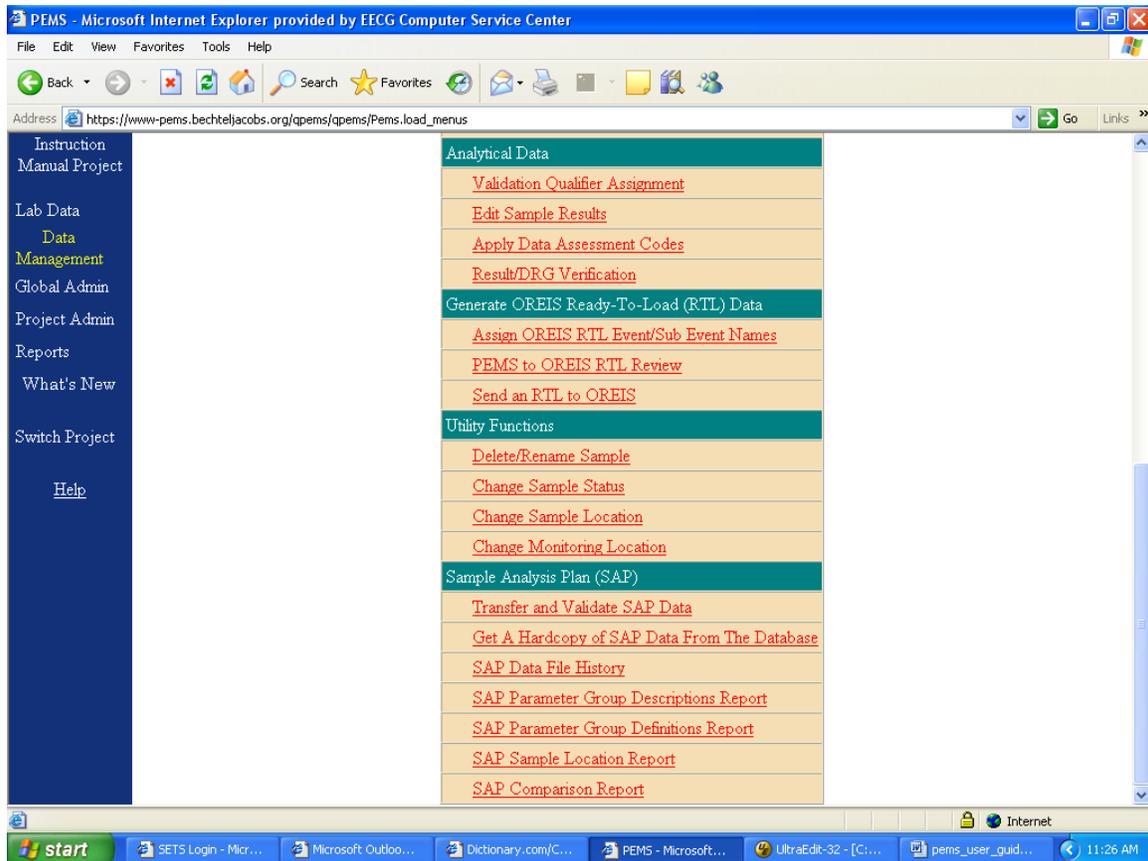
This screen allows the user to verify or unverify the selected laboratory and the selected Data Receipt Groups (DRG). Verifying a DRG prevents resubmission of the file. Unverifying a DRG will allow resubmission of the file.

Result/DRG Verification (Confirmation Screen)



This confirmation screen is displayed upon verification completion. By clicking the *Back to Select Lab & DRG* button, it returns to Result/DRG Verification Query Screen.

GENERATE OREIS RTL Review



By clicking the *Assign OREIS RTL Event/Sub Event Names*, it displays the Assign OREIS RTL Event/Sub Event Names Main Screen.

By clicking the *PEMS to OREIS RTL Review*, it displays the PEMS to OREIS RTTL Review Main Screen.

By clicking the *Send an RTL to OREIS*, it displays the Send an RTL to OREIS Main Screen.

Assign OREIS RTL Event/Sub Event Names Main Screen

This screen allows the user to assign OREIS Event Names and Sub Event Names to PEMS sample data.

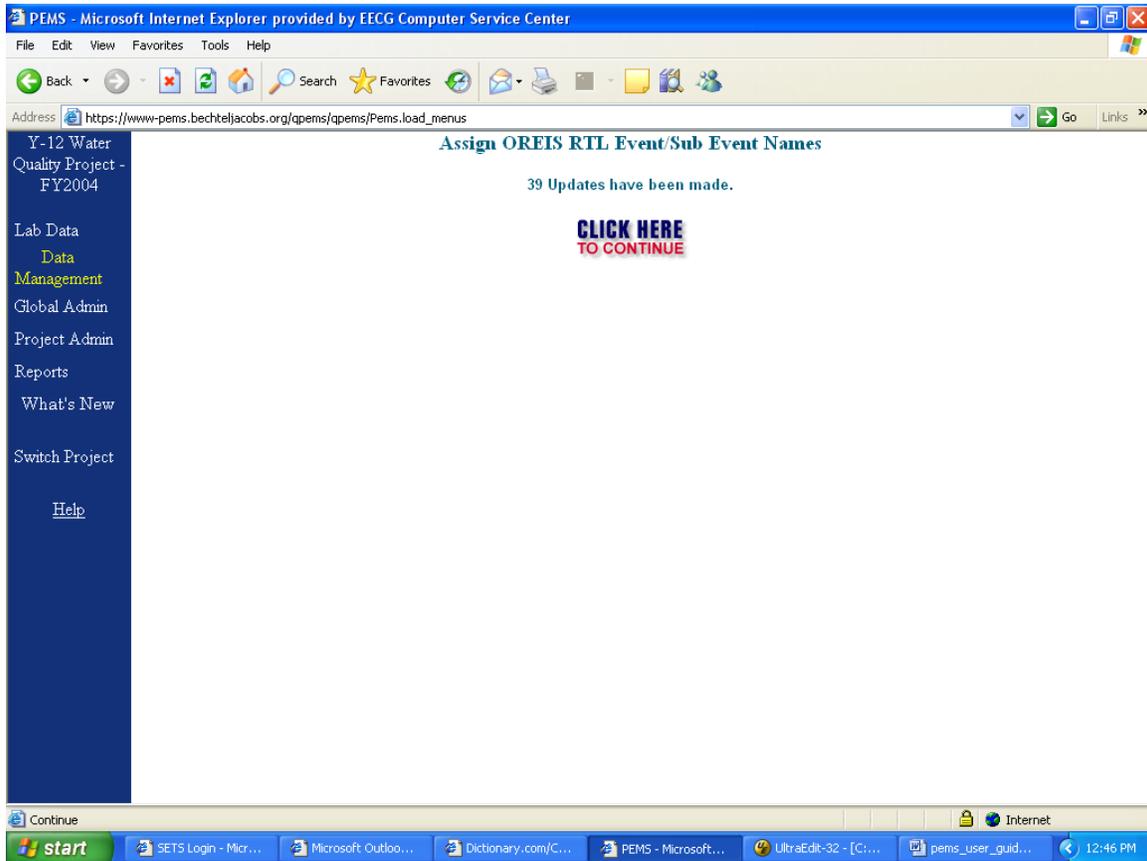
The user must choose from the *Project Task* selection list, enter the *Start Sample Collection Date* and *End Sample Collection Date* for the *Update Criteria*. A pop-up warning message will be displayed if the user fails to select/enter the required *Update Criteria*. The selection for *Monitoring Location* is optional.

The user may enter the new values for *Event Names* and/or *Sub Event Names* in the *Change Value To* section. If the user does not put any values in *Event Names* and/or *Sub Event Names*, a pop-up warning message will be displayed and the user can confirm to put no value in *Event Names* and/or *Sub Event Names*. Upon confirming 'yes' to put no value in *Event Names* and/or *Sub Event Names*, it overwrites the existing values with no value.

By entering all required criteria and by clicking the Continue icon, it updates the event names and sub event names information and displays the Assign OREIS RTL Event/Sub Event Names Update Screen.

By entering all required criteria and by clicking the Click here to view a report of event and sub event names based on your criteria button, it displays View OREIS RTL Event/Sub Event Names Screen.

Assign OREIS RTL Event/Sub Event Names Update Screen



This screen displays the number of updates that have been made for the entered event names and sub event names.

By clicking the Continue icon, it returns to the Assign OREIS RTL Event/Sub Event Names Main Screen.

View OREIS RTL Event/Sub Event Names Screen

View OREIS RTL Event/Sub Event Names

Project Task	Minimum Date	Maximum Date	Event Name	Sub Event Name	# Samples
BCW-0	02/11/2004	02/11/2004	YWQP-2004	BCW	5
BCW-5	02/11/2004	02/11/2004	YWQP-2004	BCW	9
EFW3A	02/11/2004	02/11/2004	YWQP-2004	BCW	25

CLICK HERE TO CONTINUE

This screen displays the event names and sub event names based on the selected criteria.

By clicking the Continue icon, it returns to the Assign OREIS RTL Event/Sub Event Names Main Screen.

Assign OREIS RTL Remediated Flag/Comments For Samples (Main Screen)

Assign OREIS RTL Remediated Flag / Comments For Samples

This module sets/unsets Remediated Flag and updates Remediated Comments prior to OREIS RTL. Select the desired criteria, and **CLICK HERE TO CONTINUE**.

By clicking the [Click here to view Remediated information for Samples based on your criteria](#) button, it will display the current Remediated information for Samples.

By clicking the [Click here to view Remediated information for Locations based on your criteria](#) button, it will display the current Remediated information for Locations.

Please note that the minimum and maximum possible sample collection dates for this project are: 1/01/2004 through 03/09/2006

Update Criteria: Required fields are marked with *

Project Task	All Tasks
*Hold the Ctrl key while selecting with your mouse to choose multiple tasks	BCW1 - BCW1 BCW11 - BCW11 BCW12 - BCW12 BCW3 - BCW3 BCW4 - BCW4
Start Sample Collection Date (mm/dd/yyyy)	
End Sample Collection Date (mm/dd/yyyy)	
Sample ID	All Samples
*Hold the Ctrl key while selecting with your mouse to choose multiple samples	V017530 V017531 V017532 V017533 V017534
Monitoring Location	All Locations
*Hold the Ctrl key while selecting with your mouse to choose multiple locations	BCNT3 BCK 11 54 BCK 11 84

with your mouse to choose multiple samples

Monitoring Location

*Hold the Ctrl key while selecting with your mouse to choose multiple locations

Sample Remediated Flag

NOTE: You must select 'Apply' if you want to update the Sample Remediated Comments

Sample Remediated Comments

WARNING: These Comments will overwrite any existing comments if the data have not been sent to OREIS.

Select the checkbox to also apply the Sample Remediated Flag and Comments to the selected Monitoring Location(s) that have not been sent to OREIS

Apply Remove

[Click here to view Remediated information for Samples based on your criteria.](#)

[Click here to view Remediated information for Locations based on your criteria.](#)

CLICK HERE TO CONTINUE

This screen allows the user to assign OREIS Remediated Flag and Comments to PEMS sample data.

The user must choose from the *Project Task* selection list, enter the *Start Sample Collection Date* and *End Sample Collection Date*, choose *Sample Id*, *Monitoring*

Location for the Update Criteria. A pop-up warning message will be displayed if the user fails to select/enter the required *Update Criteria*. The selection for the checkbox to also apply Sample Remediated Flag and Comments to the selected Monitoring Location(s) that have not been sent to OREIS is optional.

The user must enter Sample Remediated Comments if the user selects the *Apply* button. If the user selects the *Remove* button, any existing Sample Remediated Comments will be removed from database for the selected criteria.

If the users click the checkbox which indicates to also apply the selected Sample Remediated Flag and Comments to the selected Monitoring Location(s), it will update the Location Remediated Flag and Comments in Monitoring Location data table.

By entering all required criteria and by clicking the Continue icon, it updates the Sample Remediated Flag and Comments and displays the Assign Remediated Flag and Comments For Samples Screen with update information.

By entering all required criteria and by clicking the *Click here to view Remediated Flag and Comments For Samples based on your criteria* button, it displays View OREIS RTL Remediated Flag/Comments For Sample Screen.

By entering all required criteria and by clicking the *Click here to view Remediated Flag and Comments For Locations based on your criteria* button, it displays View OREIS RTL Remediated Flag/Comments For Locations Screen.

Assign OREIS RTL Remediated Flag/Comments For Samples

PEMS - Microsoft Internet Explorer provided by EEGC Computer Service Center

Address: https://www-pems.bchteljacobs.org/qpems/qpems/Pems.load_menu

Assign OREIS RTL Remediated Flag / Comments For Samples

Project: YWQP-2005
Task Code(s): BCW5
Monitoring Location(s): BC-NT3 , EMW-VWEIR , NT-01 , S07 , SS-5
Sample Collection Date From 10/01/2004 To 10/15/2004
Sample Id(s): All Samples

6 Sample(s) Remediated Flag and Comments have been updated.
2 Location(s) Remediated Flag and Comments have been updated.

Monitoring Location(s) have been updated		
Monitoring Location	Location Remediated Flag	Location Remediated Comments
BC-NT3	Y	Excavated
EMW-VWEIR	Y	Excavated

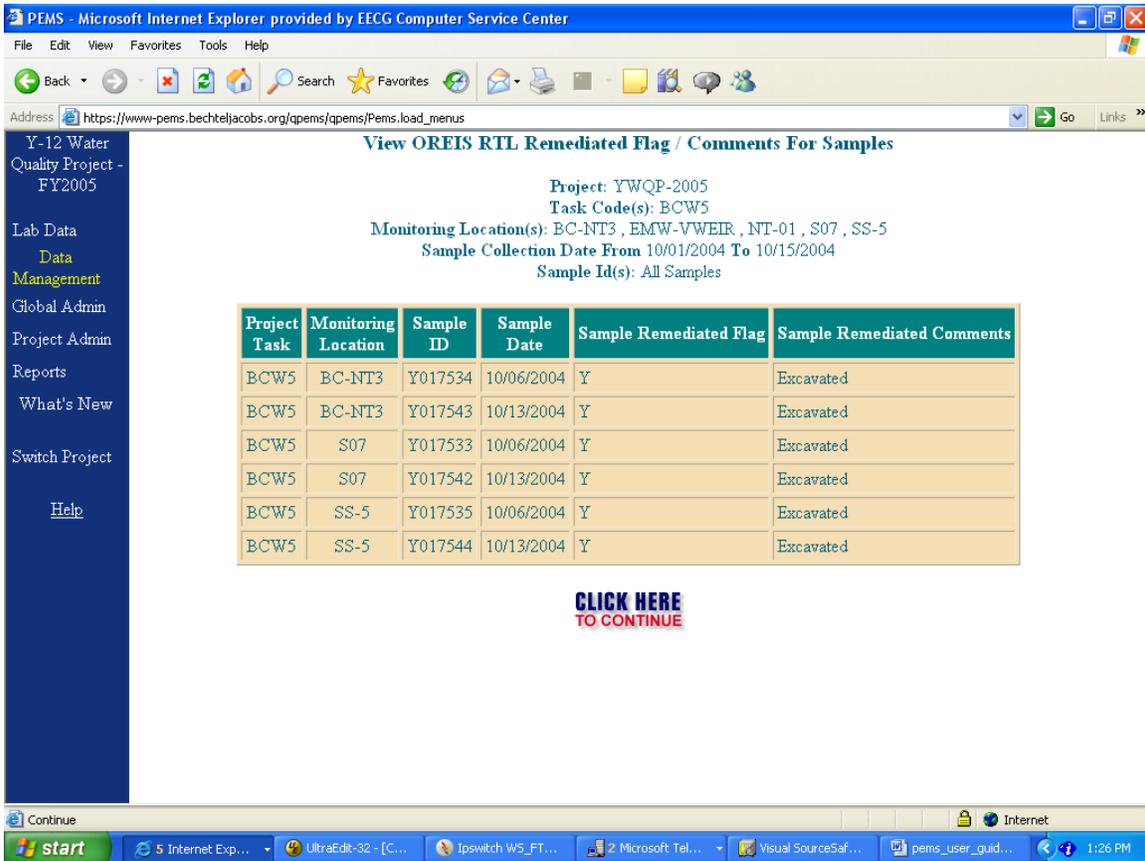
Monitoring Location	Reason for not being updated
NT-01	Location has been used by other Projects: YWQP-2001 YWQP-2002 YWQP-2003 YWQP-2004
S07	Location has been used by other Projects: ABC001 YWQP-2001 YWQP-2002 YWQP-2003 YWQP-2004
SS-5	Location has been sent to OREIS
SS-5	Location has been used by other Projects: IWQP-COMP YWQP-2001 YWQP-2002 YWQP-2003 YWQP-2004

CLICK HERE TO CONTINUE

This screen displays the number of records being updated for the Sample Remediated Flag and Comments.

If the user selects the checkbox that indicates to also apply the Sample Remediated Flag and Comments to the selected Monitoring Locations, this screen will display the number of records being updated for the Location Remediated Flag and Comments. Only those Monitoring Locations that have not been sent to OREIS will be updated. For those Location Remediated Flag and Comments that cannot be updated, the screen will display the reason.

View OREIS RTL Remediated Flag/Comments For Samples



By clicking the Continue icon, it will return to the Assign OREIS RTL Remediated Flag and Comments For Samples main screen.

View OREIS RTL Remediated Flag/Comments For Locations

View OREIS RTL Remediated Flag / Comments For Locations

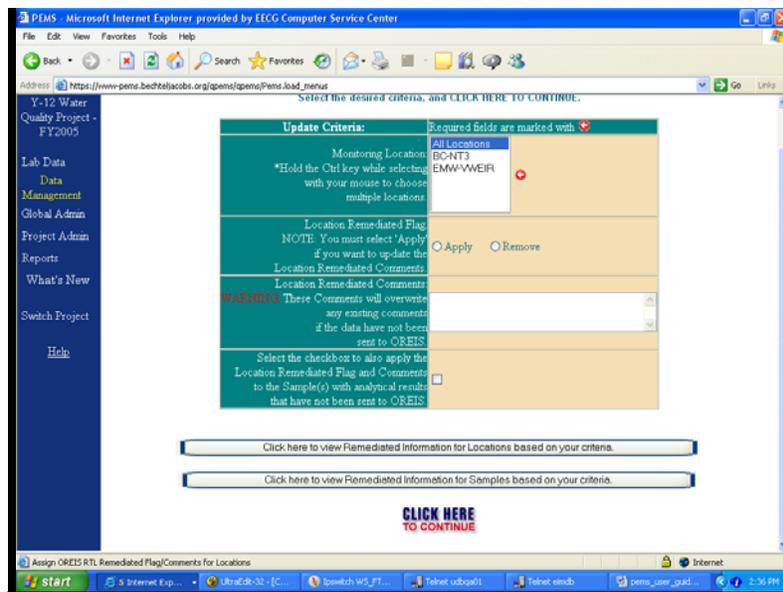
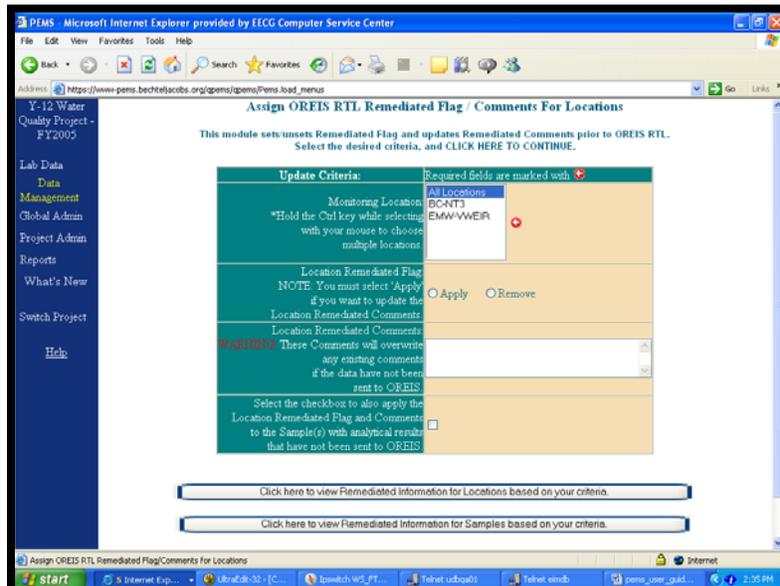
Project: YWQP-2005
 Task Code(s): BCW5
 Monitoring Location(s): BC-NT3 , EMW-VWEIR , NT-01 , S07 , SS-5
 Sample Collection Date From 10/01/2004 To 10/15/2004
 Sample Id(s): All Samples

Monitoring Location	Location Remediated Flag	Location Remediated Comments
BC-NT3	Y	Excavated
EMW-VWEIR	Y	Excavated
NT-01		
S07		
SS-5		

CLICK HERE TO CONTINUE

By clicking the Continue icon, it will return to the Assign OREIS RTL Remediated Flag and Comments For Samples main screen

Assign OREIS RTL Remediated Flag/Comments For Locations (Main Screen)



This screen allows the user to assign OREIS Remediated Flag and Comments to PEMS Monitoring Locations.

The user must choose from the *Monitoring Location* selection list. A pop-up warning message will be displayed if the user fails to select *Update Criteria*. The selection for the

checkbox to also apply Location Remediated Flag and Comments to the Samples with analytical results that have not been sent to OREIS is optional.

The user must enter Location Remediated Comments if the user selects the *Apply* button. If the user selects the *Remove* button, any existing Location Remediated Comments will be removed from database for the selected criteria.

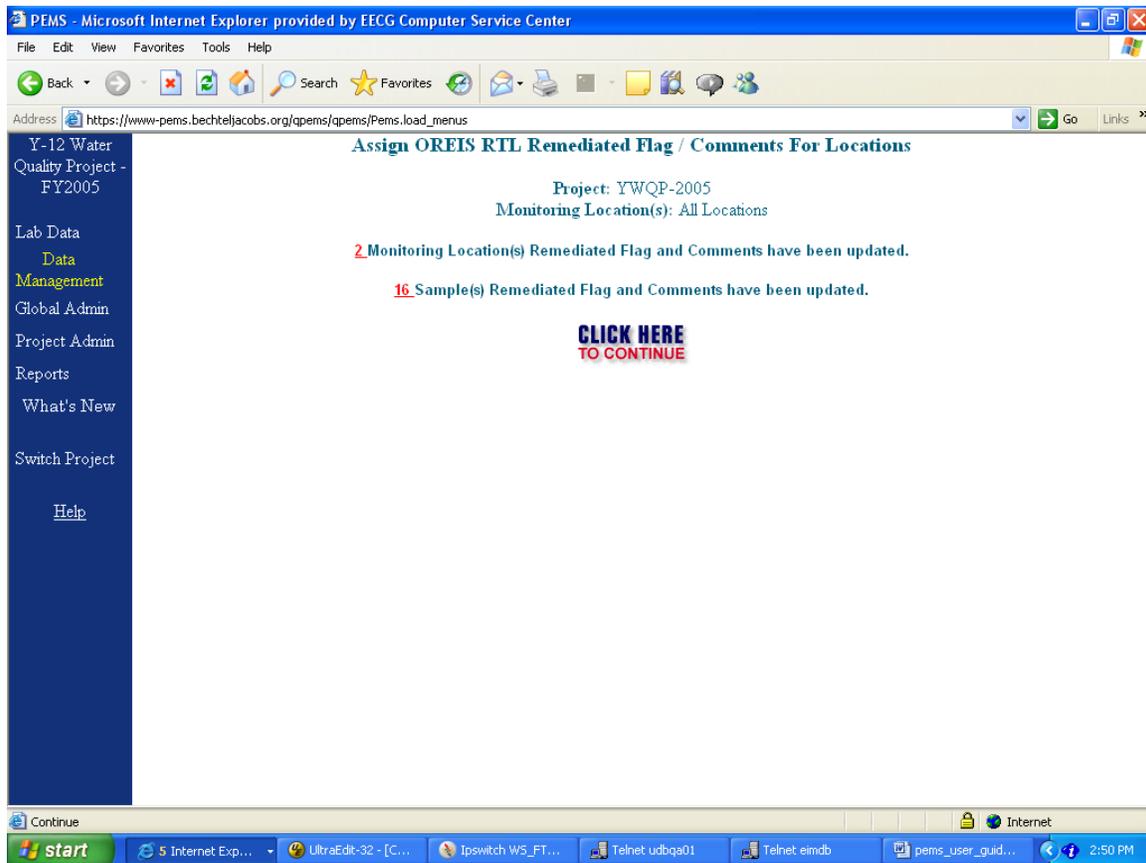
If the users click the checkbox which indicates to also apply the selected Location Remediated Flag and Comments to samples with analytical results that have not been sent to OREIS, it will update the Sample Remediated Flag and Comments in Sample data table.

By entering all required criteria and by clicking the Continue icon, it updates the Location Remediated Flag and Comments and displays the Assign Remediated Flag and Comments For Locations Screen with update information.

By entering all required criteria and by clicking the *Click here to view Remediated Flag and Comments For Locations based on your criteria* button, it displays View OREIS RTL Remediated Flag/Comments For Locations Screen.

By entering all required criteria and by clicking the *Click here to view Remediated Flag and Comments For Samples based on your criteria* button, it displays View OREIS RTL Remediated Flag/Comments For Samples Screen.

Assign OREIS RTL Remediated Flag/Comments For Locations



This screen displays the number of records being updated for the Location Remediated Flag and Comments.

If the user selects the checkbox that indicates to also apply the Sample Remediated Flag and Comments to the selected Monitoring Locations, this screen will display the number of records being updated for the Sample Remediated Flag and Comments. Only those samples with analytical results that have not been sent to OREIS will be updated.

View OREIS RTL Remediated Flag/Comments For Locations

The screenshot shows a Microsoft Internet Explorer browser window displaying a web application. The address bar shows the URL: https://www-pems.bchteljacobs.org/qpems/qpems/Pems.load_menus. The page title is "View OREIS RTL Remediated Flag / Comments For Locations".

On the left side, there is a vertical navigation menu with the following items: "Y-12 Water Quality Project - FY2005", "Lab Data", "Data Management", "Global Admin", "Project Admin", "Reports", "What's New", "Switch Project", and "Help".

The main content area displays the following information:

- Project: YWQP-2005
- Monitoring Location(s): All Locations

Below this information is a table with the following data:

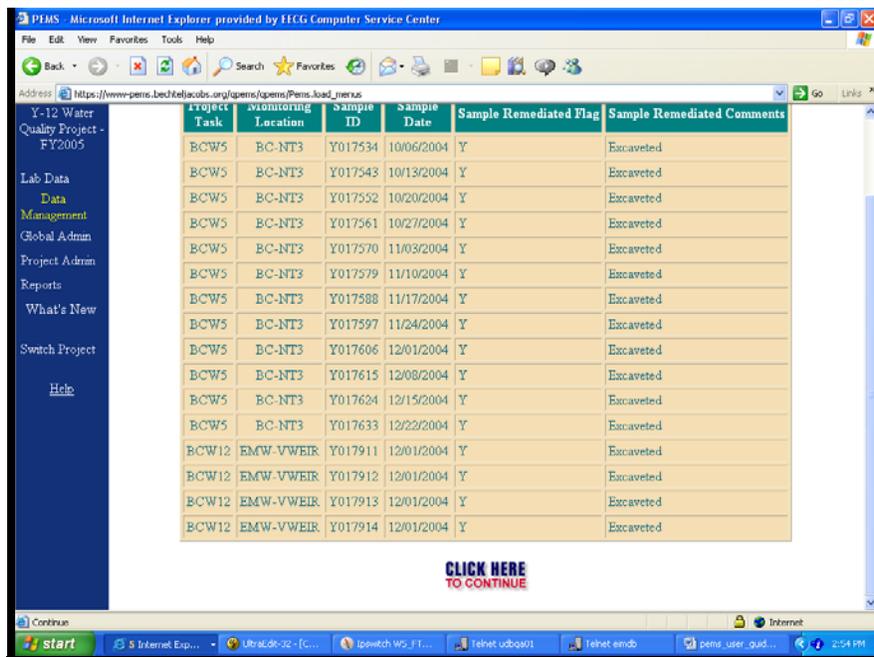
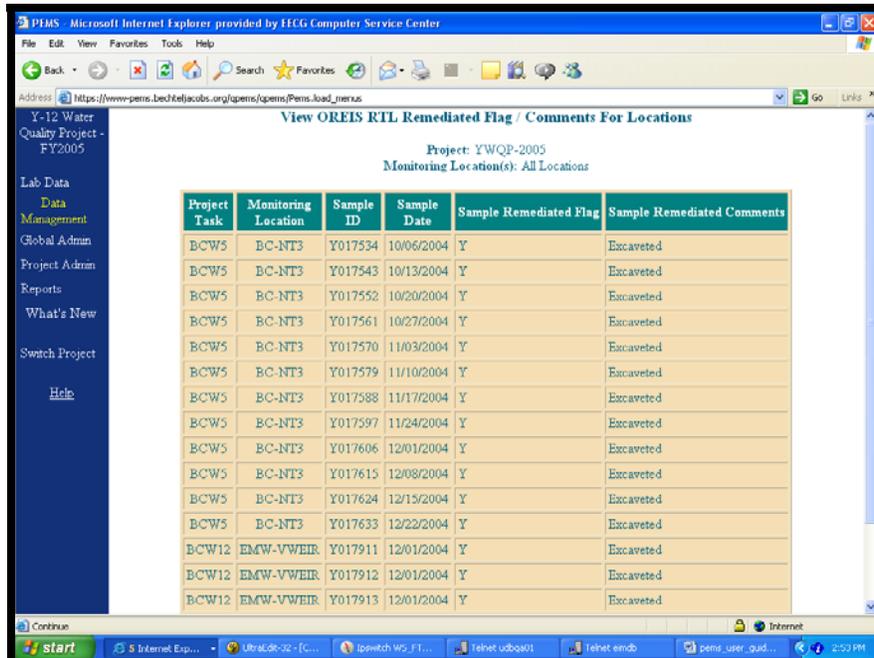
Monitoring Location	Location Remediated Flag	Location Remediated Comments
BC-NT3	Y	Excavated
EMW-VWEIR	Y	Excavated

Below the table, there is a red button with the text "CLICK HERE TO CONTINUE".

The Windows taskbar at the bottom shows several open applications: Internet Explorer, UltraEdit-32, Ipswitch WS_FT..., Telnet udbqa01, Telnet eimdb, and pems_user_guid... The system clock shows 2:52 PM.

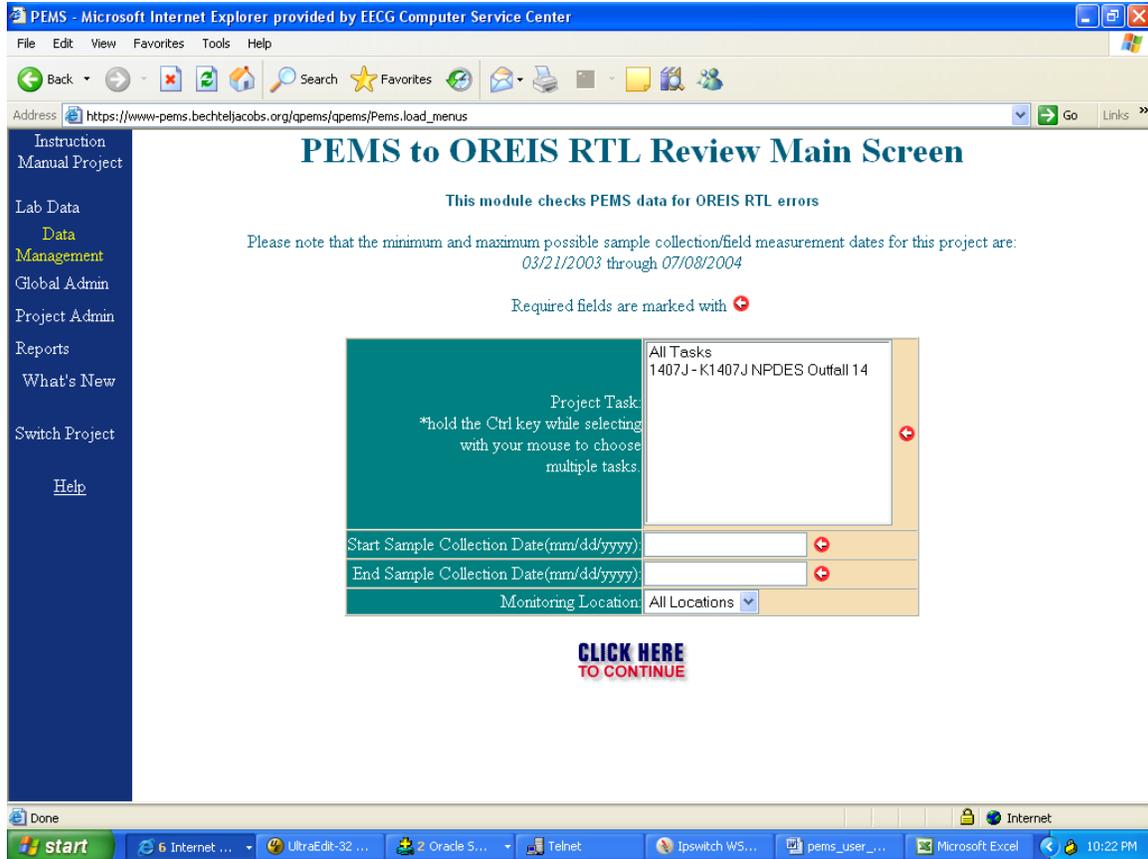
By clicking the Continue icon, it will return to the Assign OREIS RTL Remediated Flag and Comments For Locations main screen.

View OREIS RTL Remediated Flag/Comments For Samples



By clicking the Continue icon, it will return to the Assign OREIS RTL Remediated Flag and Comments For Locations main screen.

PEMS to OREIS RTL Review Main Screen



The RTL Review checks for gaps in the data to be sent from PEMS to OREIS.

This screen allows the user to select Project Task(s), enter the Start and End Sample Collection Date, and select Monitoring Location. By clicking the Continue icon, the data is checked for OREIS RTL errors and displays any error messages on the PEMS to OREIS RTL Review Screen.

PEMS to OREIS RTL Review Screen

The screenshot shows a Netscape browser window with the following elements:

- Browser Title:** PEMS - Netscape
- Address Bar:** https://198.124.46.174/pems/ppems/Pems.load_menus
- Navigation Menu (Left):**
 - NFT
 - Lab Data
 - Data Management
 - Global Admin
 - Project Admin
 - Reports
 - What's New
 - Switch Project
 - Help
- Main Content:**

PEMS to OREIS RTL Review

SAMP MEAS Mandatory fields with no values

Field Name	Sample ID	Parameter
MED_TYPE	EGGS1	15438310
	EGGS1	N704

Field Meas Mandatory Fields With No Values

Field Name	Station	Date Collected	Parameter
MED_TYPE	0125	04/07/2003	N704
	0125	04/07/2003	NS998

CLICK HERE TO CONTINUE

This screen displays any error message resulting from data validation.

By clicking the Continue icon, it returns to PEMS to OREIS RTL Review Main Screen.

Send an RTL to OREIS Main Screen (Part 1)

Send an RTL to OREIS Main Screen

PLEASE REVIEW THESE INSTRUCTIONS BEFORE SENDING DATA TO OREIS

This function sends the selected data to the OREIS temporary staging area. To complete the transfer of the data to OREIS staff for loading into the OREIS database, you will need to complete the following steps:

**** 1 ****
 Complete the OREIS Environmental Measurements Data Transmittal form and submit it to an OREIS staff member (see contact information below). The completed form can be faxed or e-mailed. Complete all applicable items in sections I, II, III and also include the trans_id in block 32 which will be given after the data is sent to the OREIS staging area. The form can be accessed in Microsoft Word format by clicking on the link below:
[OREIS Data Transmittal Form](#)

**** 2 ****
 OREIS cannot process any data until it has been cleared for PUBLIC RELEASE through the appropriate site classification office. For Oak Ridge Bechtel Jacobs data, contact the ETPP Site Classification and Information Control Office at 865-574-9706 to obtain the appropriate classification guidance and form. Once the form has all the appropriate signatures, please fax a copy to an OREIS staff member listed below.

**** 3 ****
 OREIS Oak Ridge Staff Contacts:
 Deidre Tharpe, e-mail: DTHARPE@, fax: 865-220-0339.

For questions concerning PEMS or OREIS policy or procedures, contact Teresa James, Environmental Information Manager for Bechtel Jacobs, LLC at 865-576-2057.

Please note that the minimum and maximum possible sample collection/field measurement dates for this project are:
 03/21/2003 through 07/08/2004

Derived fields are marked with

The top part of this screen displays the RTL instructions for the user to follow. The bottom part of this screen displays the selection criteria that are shown on next page.

Send an RTL to OREIS Main Screen (Part 2)

PEMS - Microsoft Internet Explorer provided by EECG Computer Service Center

File Edit View Favorites Tools Help

Address https://www-pems.bechteljacobs.org/qpems/qpems/Pems.load_menus Go Links

Instruction
Manual Project

Lab Data
Data
Management

Global Admin
Project Admin
Reports
What's New
Switch Project
Help

OREIS Oak Ridge Staff Contacts:
Deidre Tharpe, e-mail: DTHARPE@, fax: 865-220-0339.

For questions concerning PEMS or OREIS policy or procedures, contact Teresa James, Environmental Information Manager for Bechtel Jacobs, LLC at 865-576-2057.

Please note that the minimum and maximum possible sample collection/field measurement dates for this project are:
03/21/2003 through 07/08/2004

Required fields are marked with +

Project Task
*hold the Ctrl key while selecting with your mouse to choose multiple tasks.

All Tasks
1407J - K1407J NPDES Outfall 14

Start Sample Collection Date(mm/dd/yyyy)

End Sample Collection Date(mm/dd/yyyy)

Monitoring Location: All Locations

Note: This transfer excludes analytical data from Tracer and Surrogate analysis.

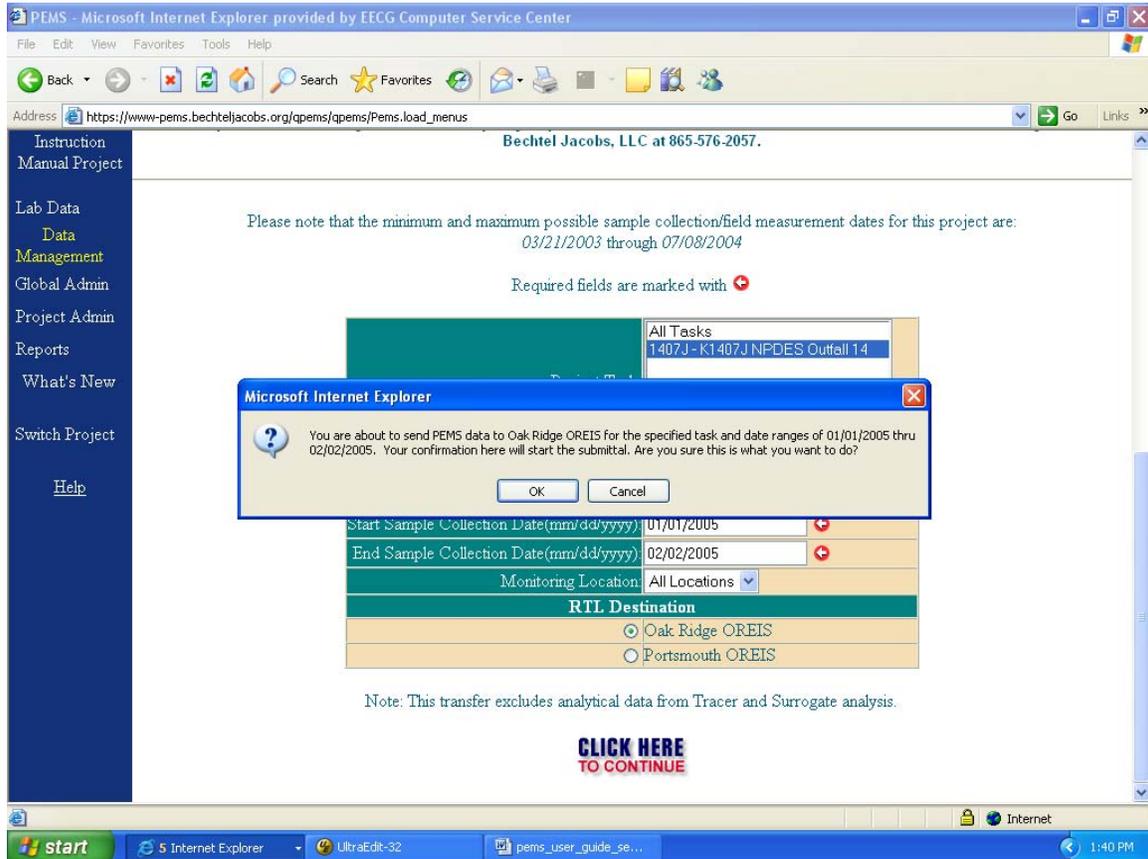
CLICK HERE TO CONTINUE

Send an RTL to OREIS

start 6 Internet ... UltraEdit-32 ... Oracle S... Telnet Ipswitch WS... pems_user... Microsoft Excel Friday, September 30, 2005 10:21 PM

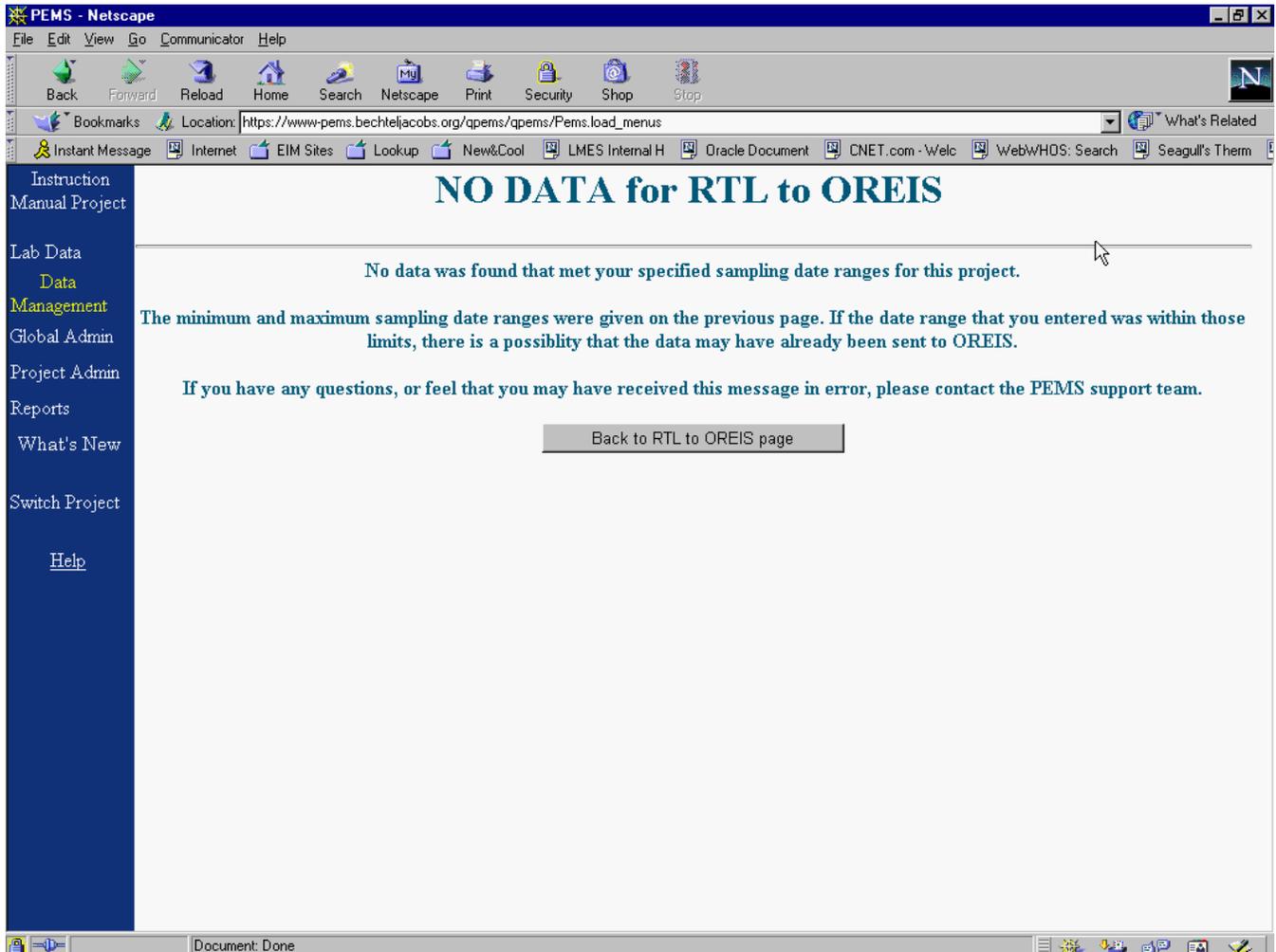
The user can select the Project Task(s), enter the Start and End Sample Collection Dates, and select Monitoring Location. By clicking the Continue icon, it pops up a window with a confirmation message as shown on next page.

Send an RTL to OREIS (Confirm Message Screen)



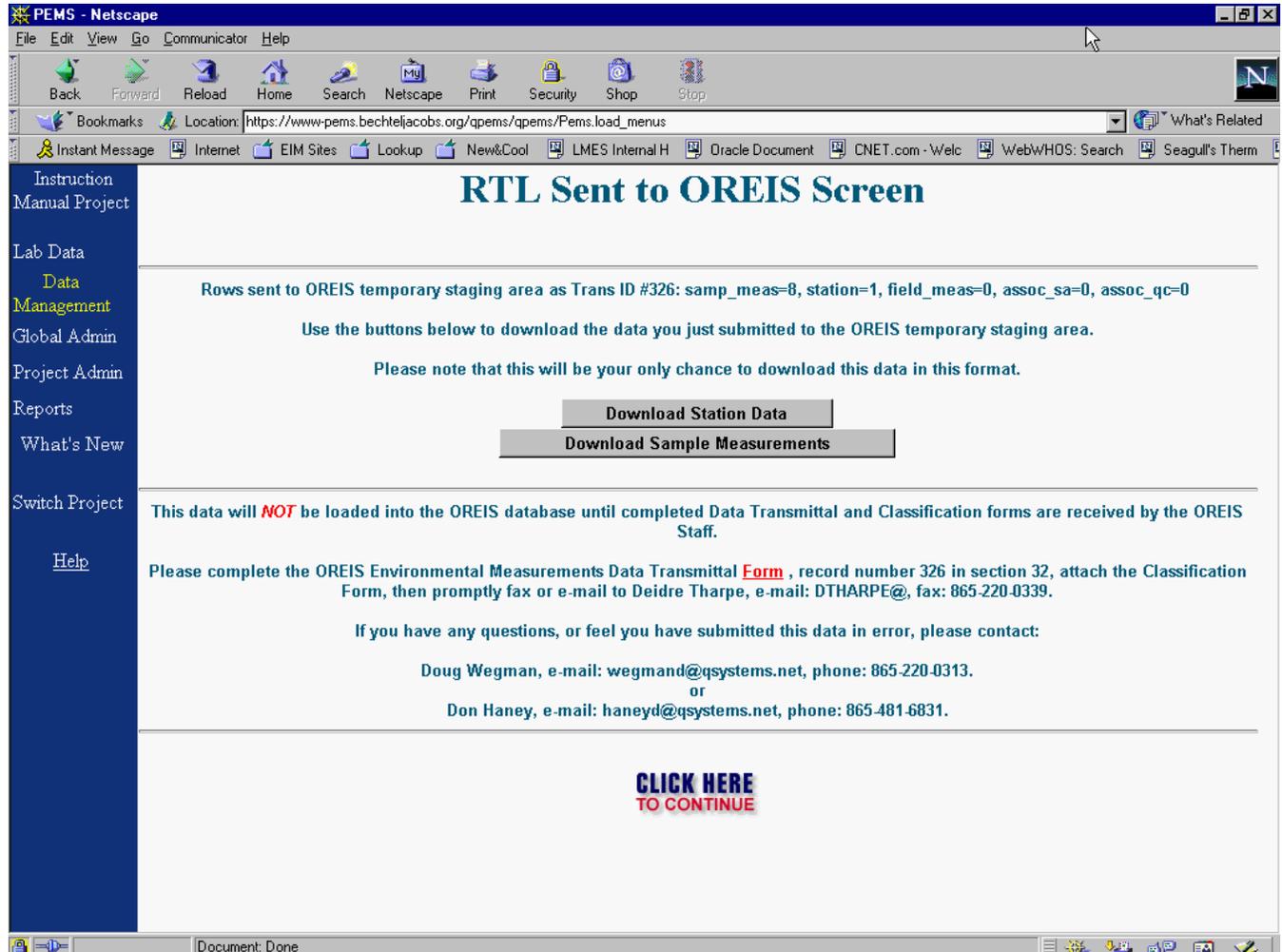
This pop-up screen will confirm the action. By clicking the OK button, it processes the data validation and sends data if there is no error.

Send an RTL to OREIS (Error Message Screen)



The system will rerun the review application and will check for missing data. If errors are detected, the system will display an appropriate error screen.

Send an RTL to OREIS (Successful Message Screen)



The system will confirm that the data set has been sent to OREIS. At this time, the submitted files can be downloaded to a PC.

This form must be sent to the OREIS support personnel listed in the instructions.

OREIS Environmental Measurements Data Transmittal

I. CONTACTS			
1. Data Custodian/Organization	2. Phone	3. Date	
4. Data Generator/Organization	5. Phone		
II. PROJECT INFORMATION			
6. Project Name	7. Project Code		
8. Date Project Initiated (mm/dd/yy)	9. Date Project Completed (mm/dd/yy)		
10. ADS Name	11. ADS Number		
12. Project Sponsor <input type="checkbox"/> ER <input type="checkbox"/> EM <input type="checkbox"/> Other (please specify)	13. Project Program		
14. Site <input type="checkbox"/> ORNL <input type="checkbox"/> K-25 <input type="checkbox"/> Y-12 <input type="checkbox"/> Paducah <input type="checkbox"/> Portsmouth <input type="checkbox"/> Offsite <input type="checkbox"/> Other (specify)			
15. Project Records Location (complete location information for lab books, data packages, QA/QC, etc.)			
16. Project Description			
III. DATA INFORMATION (attach pages as needed)			
17. General Description of Data			
18. Data Files	File/Table	# Records	Metadata
19. Data Format <input type="checkbox"/> TXT <input type="checkbox"/> DBF <input type="checkbox"/> XLS <input type="checkbox"/> MDB <input type="checkbox"/> CSV <input type="checkbox"/> Other (specify)			
20. Data Transfer Media Description			
21. Footnote (brief statement that could be used with tables or graphs)			
22. Time Period (beginning yr. - ending yr.)			
23. Cautions Associated with Using the Data			
24. Complete References to Relevant Reports or Documents			
25. Exact Location of Information in Support of this Transmittal (if not included in #15)			

IV. OREIS Receiving/Review			
26. OREIS Login By (name of OREIS Data Management Staff Member)	27. Phone	28. Date Received	29. Date Acknowledged

Utility Functions



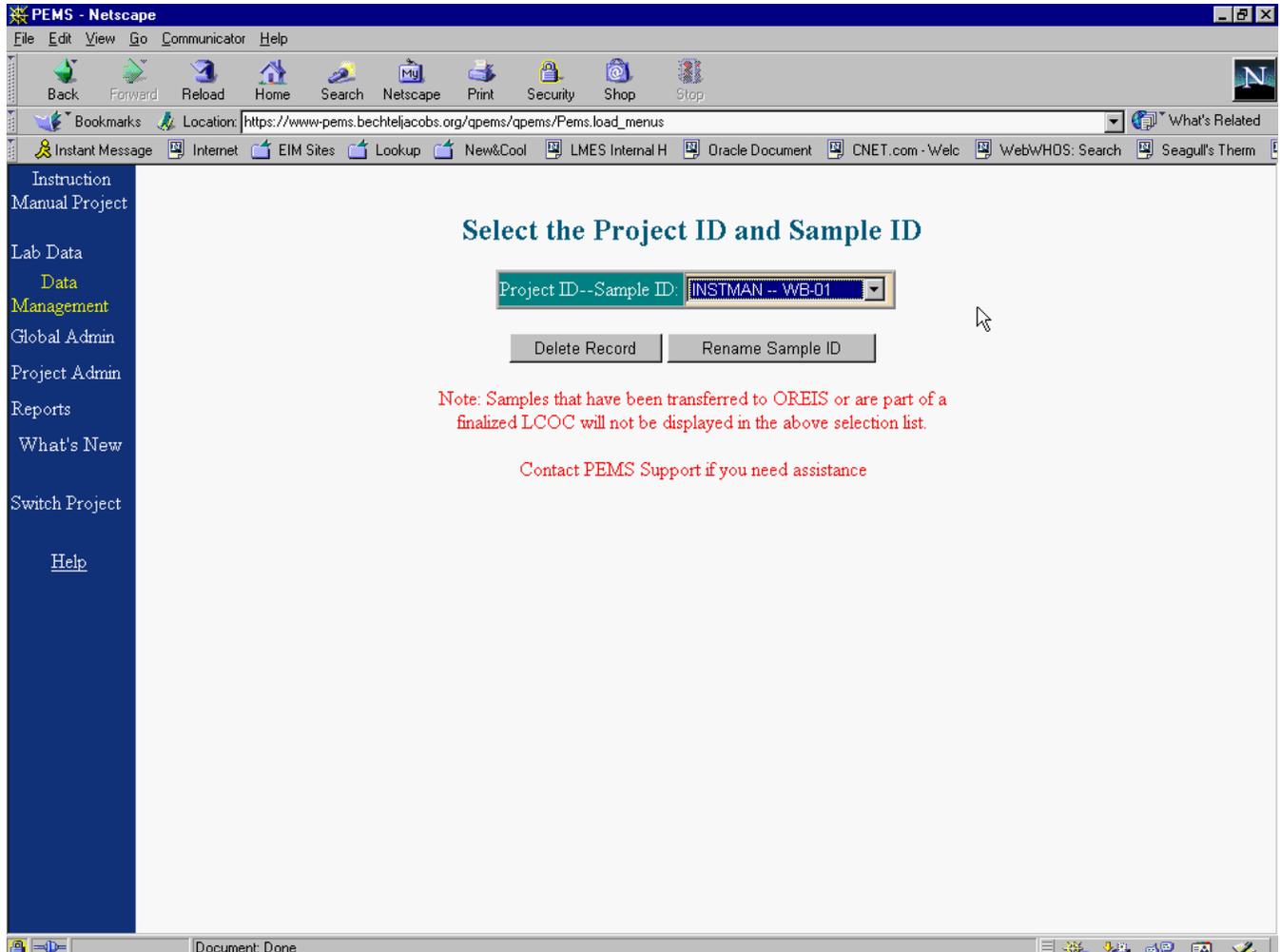
By clicking the Delete/Rename Sample, it displays the Select the Project ID and Sample ID Query Screen.

By clicking the Change Sample Status, it displays the Change Sample Status Query Screen.

By clicking the Change Sample Location, it displays the Change Sample Location Query Screen.

By clicking the Change Monitoring Location, it displays the Change Monitoring Location Query Screen.

Select the Project ID and Sample ID Query Screen (Delete/Rename Sample)

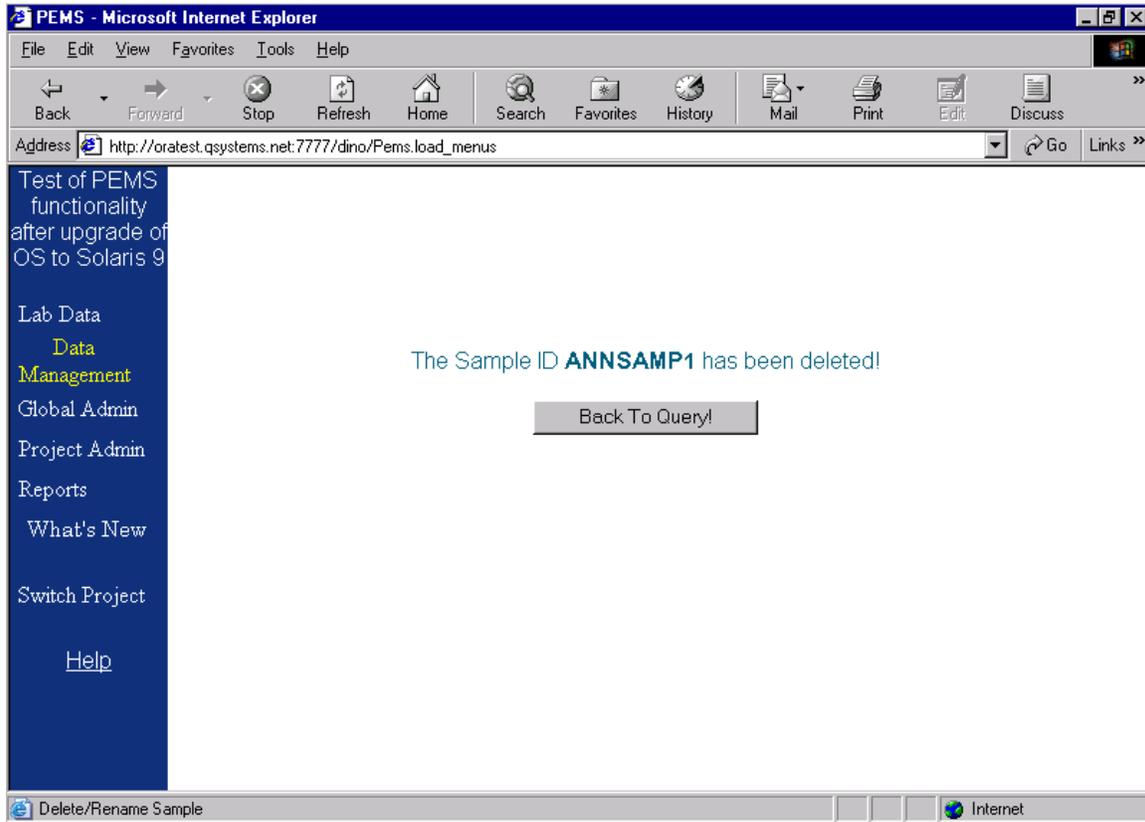


This screen allows the User to delete sample or rename the sample ID.

By clicking the Delete Record button after selecting the Project ID and Sample ID, it removes the selected sample and displays a Delete Sample Message screen.

By clicking the Rename Sample ID after selecting the Project ID and Sample ID, it displays the Enter the New Sample ID Screen.

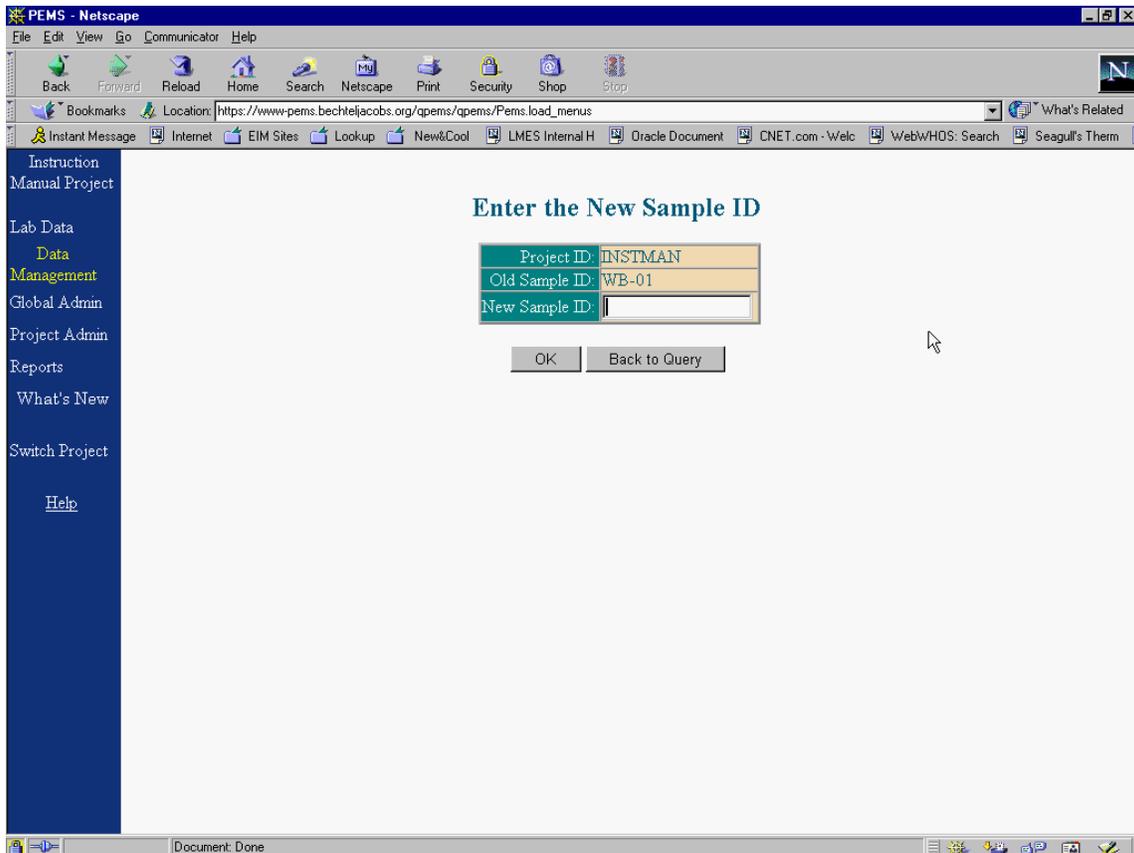
Delete Sample Message Screen



This screen displays the message after deletion for the selected Sample ID.

By clicking the *Back To Query* button, it returns to the Select the Project ID and Sample ID Query Screen.

Enter the New Sample ID Screen

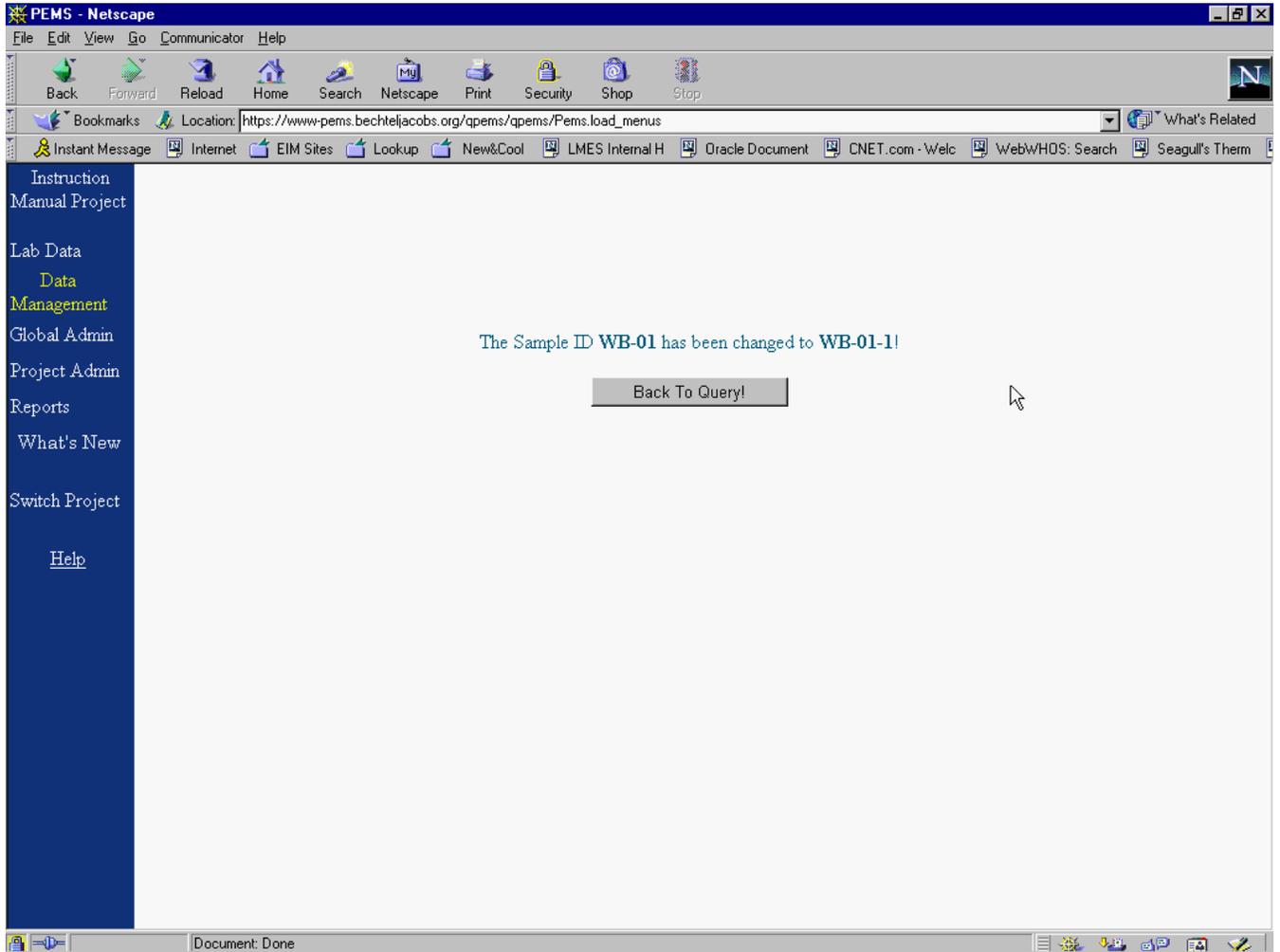


This screen allows the user to enter the New Sample ID.

By clicking the *OK* button, it replaces the Old Sample ID with the New Sample ID and displays the Rename Sample Message Screen.

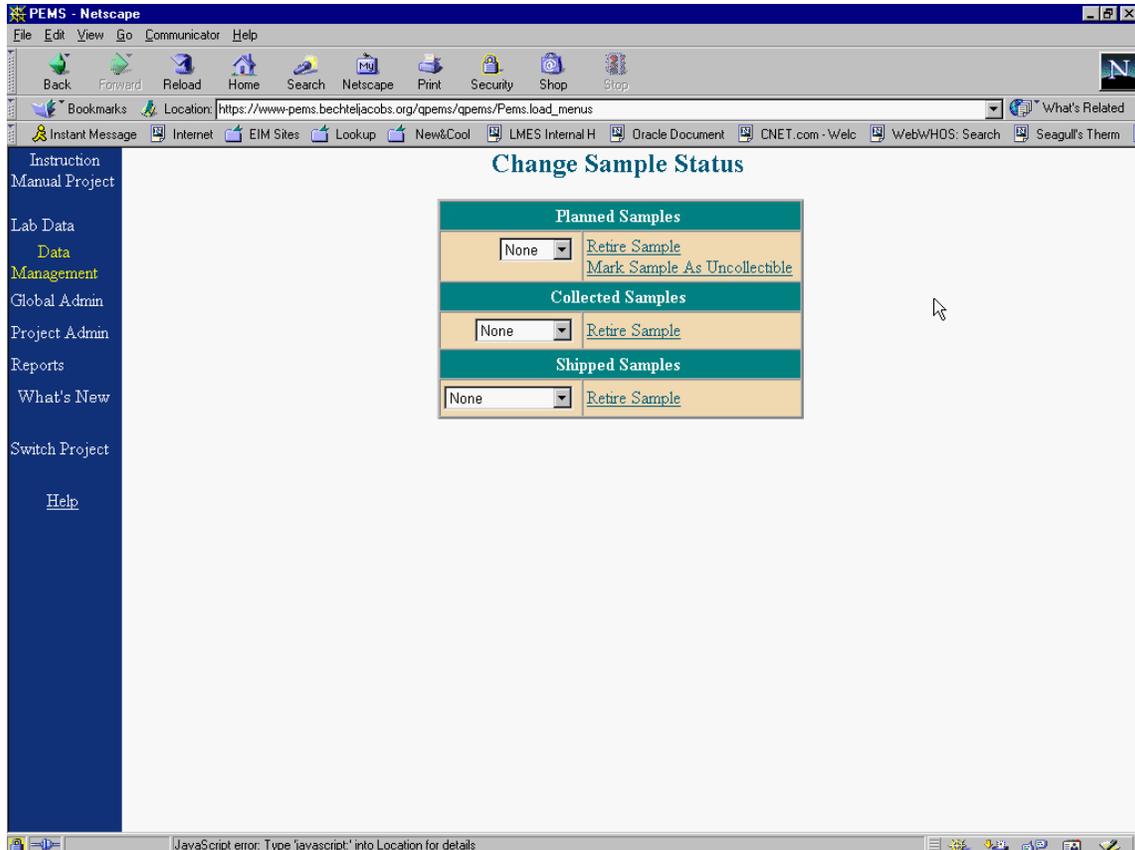
By clicking the *Back to Query* button, it returns to the Select the Project ID and Sample Id Query Screen.

Rename Sample Message Screen



This screen displays message that the sample name has been changed.

Change Sample Status Query Screen



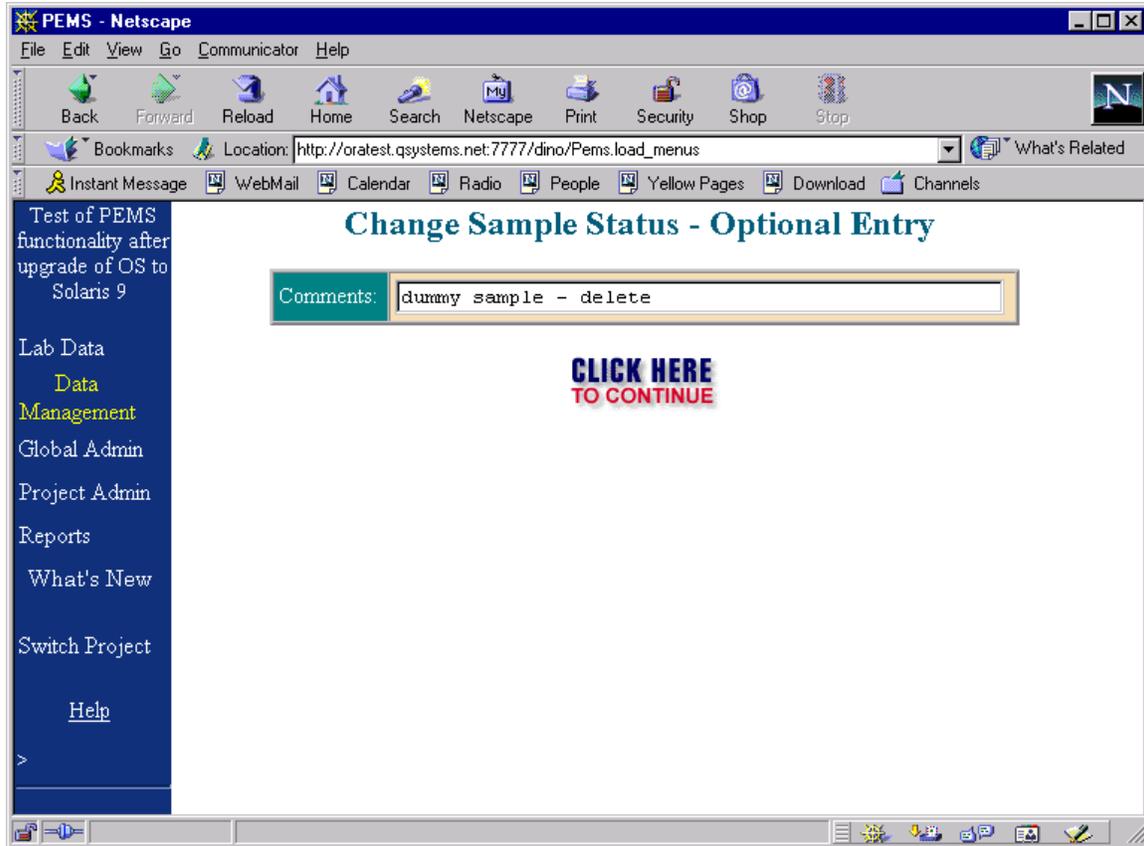
This screen allows the user to change the status of a sample from planned, collected or shipped to retired or uncollectible.

By selecting a Planned or Collected Sample and clicking *Retire Sample*, it updates the sample with the Retired status and displays the Change Sample Status—Optional Entry Screen (Retired Status).

By selecting a Planned Sample and clicking *Mark Sample As Uncollectible*, it updates the sample with the Uncollected status and displays the Change Sample Status—Optional Entry Screen (Uncollected Status).

By selecting a Shipped Sample and clicking *Retire Sample*, it updates the sample with Retired status and displays the Retiring Shipped Sample - Mandatory Comments Entry Screen.

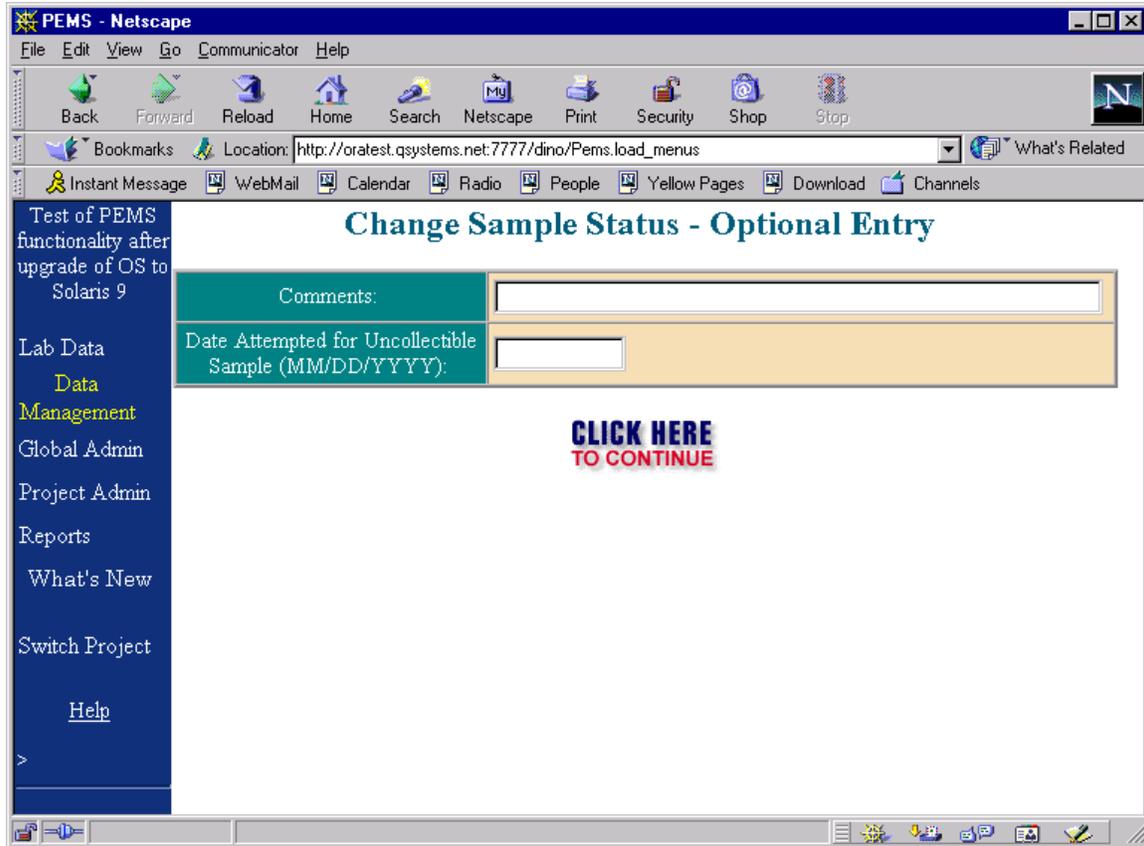
Change Sample Status – Optional Entry Screen (Retired Status)



This Screen allows the user to enter any comment if needed.

By clicking the Continue icon, it updates the comments and returns to Change Sample Status Query Screen with a display message like 'Sample XXXX Marked As Retired'.

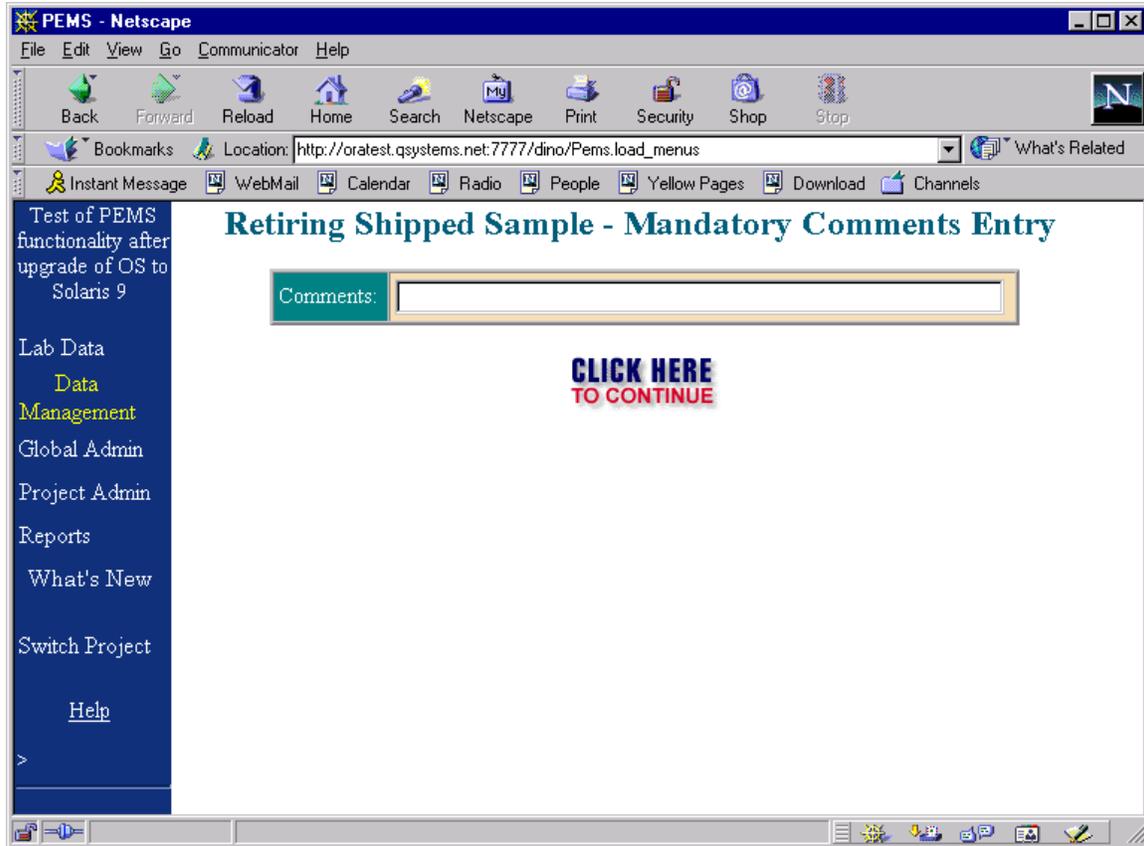
Change Sample Status – Optional Entry Screen (Uncollectible Status)



This Screen allows the user to enter any comment and the date attempted for Uncollectible if needed.

By clicking the Continue icon, it updates the information and returns to Change Sample Status Query Screen with a display message like 'Sample XXXX Marked As Uncollectible'.

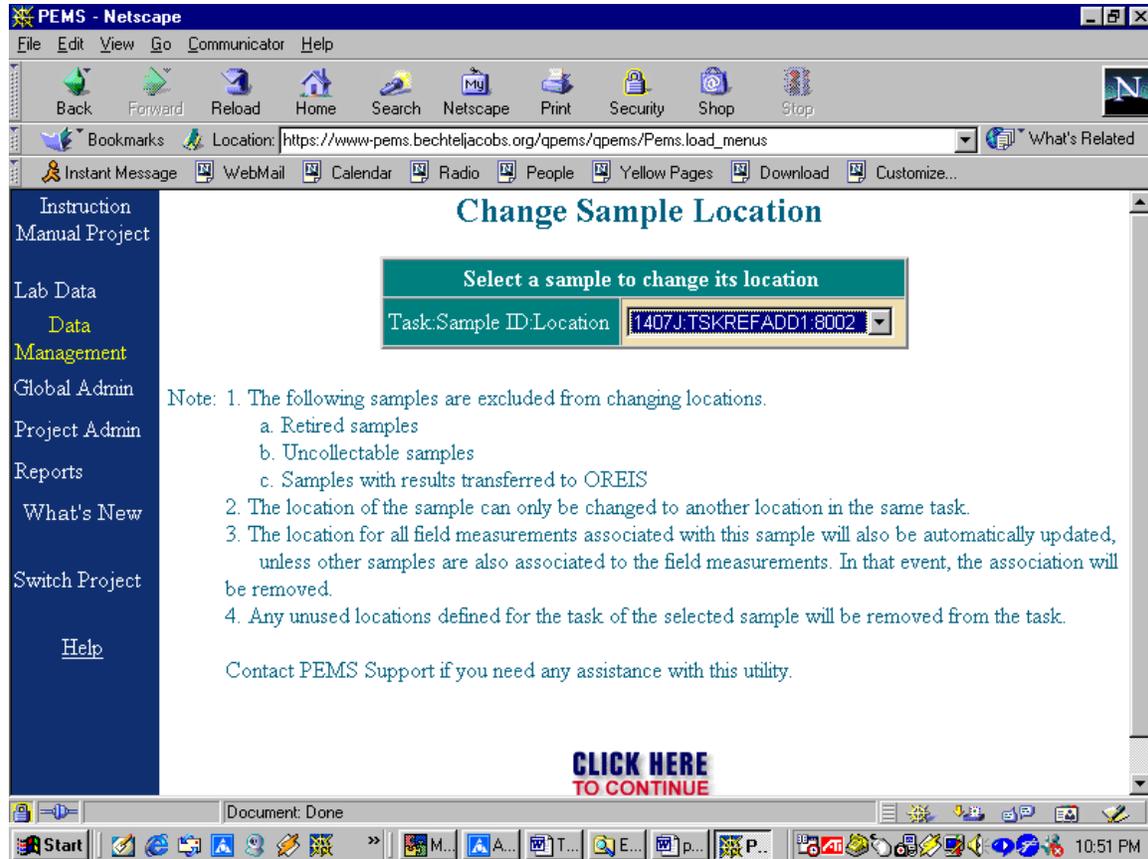
Retiring Shipped Sample - Mandatory Comments Entry Screen



This Screen allows the user to enter any comment for the selected Shipped Sample. It is mandatory to enter the comment.

By clicking the Continue icon, it updates the entered information and returns to Change Sample Status Query Screen with a display message like 'Sample XXXX Marked As Retired'. If the user does not entered any comment, it will not update the sample with Retired status and displays a message 'Comments must be entered when retiring Shipped samples'.

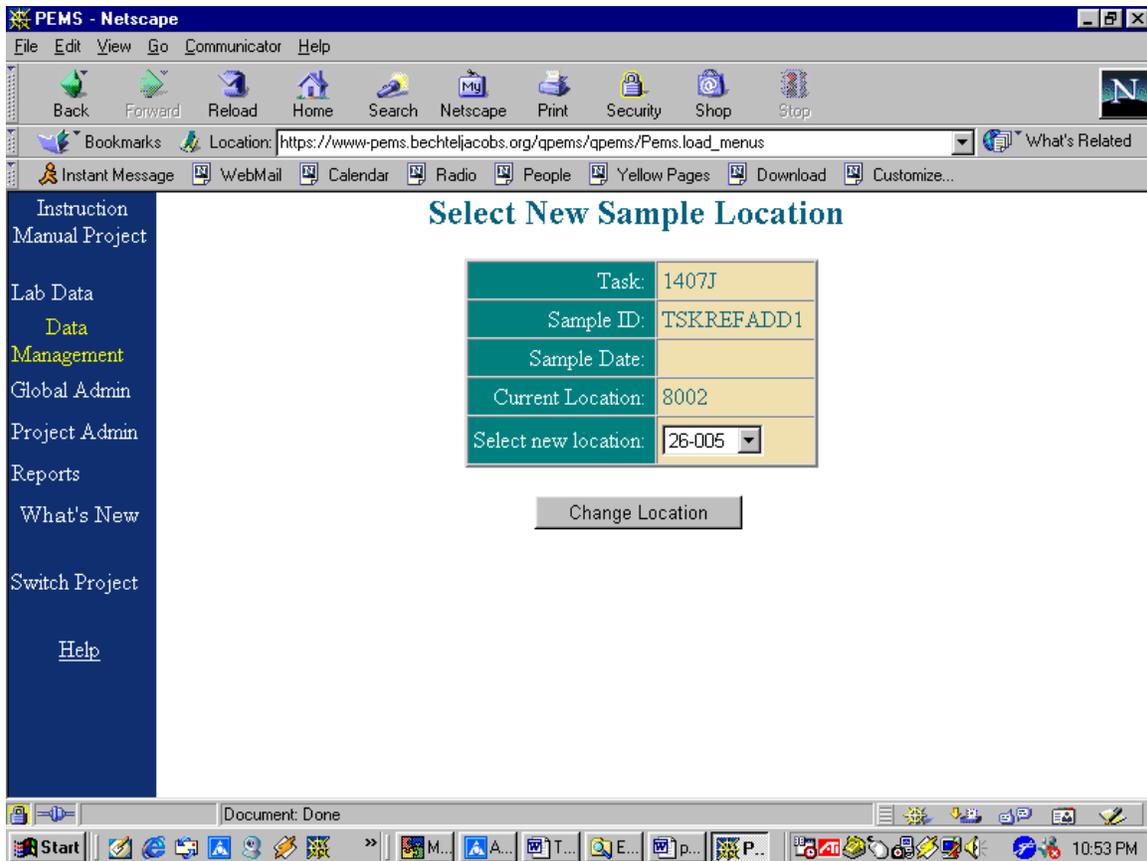
Change Sample Location Query Screen



The location of a sample can only be changed to another location in the same task.

By selecting the Task Sample ID Location and clicking the Continue icon, it displays the Select New Sample Location Screen.

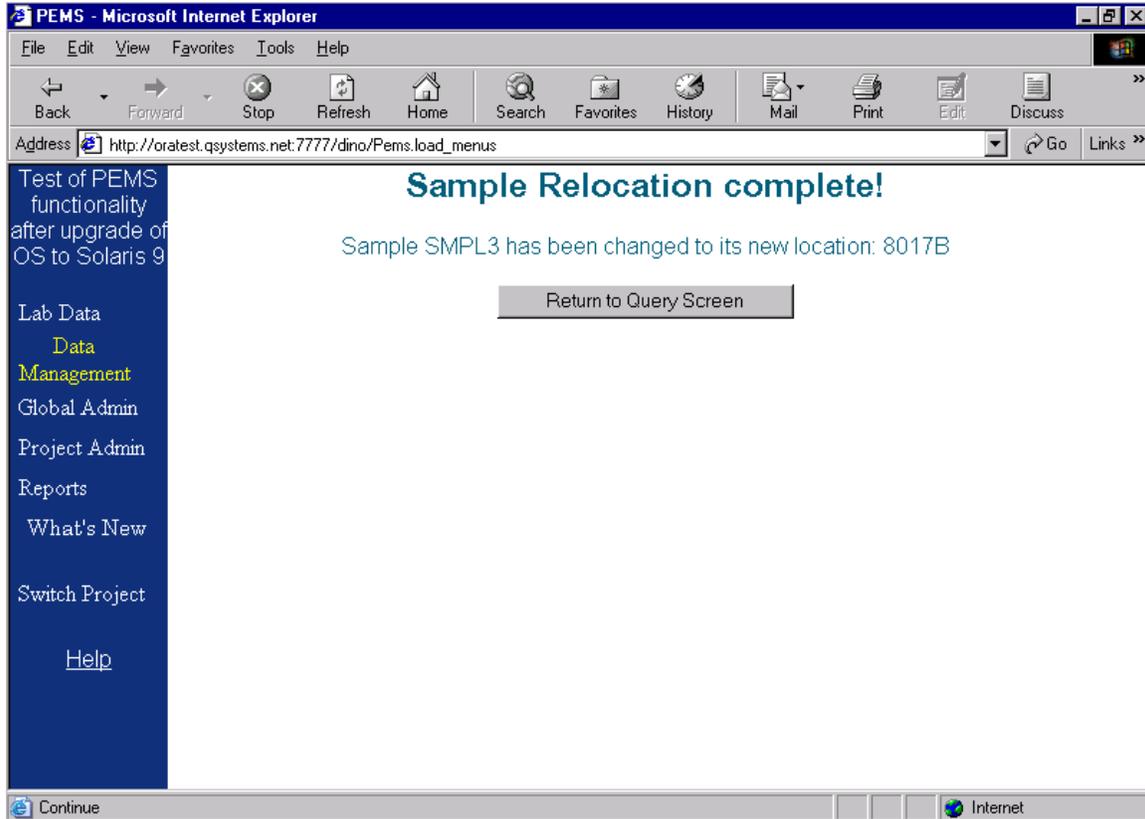
Select New Sample Location Screen



This screen allows the user to select the new location from the pick list.

By clicking the *Change Location* button, it saves the new location and displays the Sample Relocation Complete Message Screen.

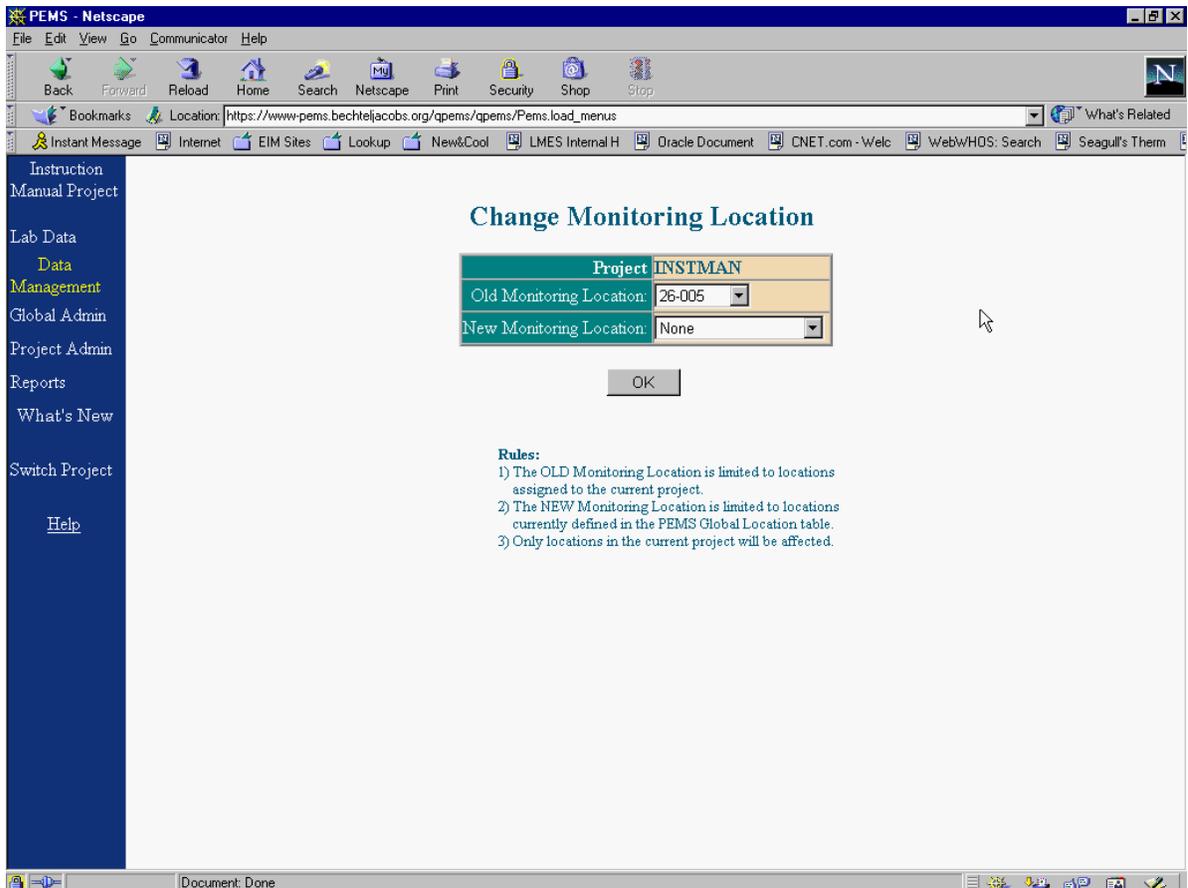
Sample Relocation Complete Message Screen



This screen displays the message that the sample has new location.

By clicking the *Return to Query Screen* button, it returns to Change Sample Location Query Screen.

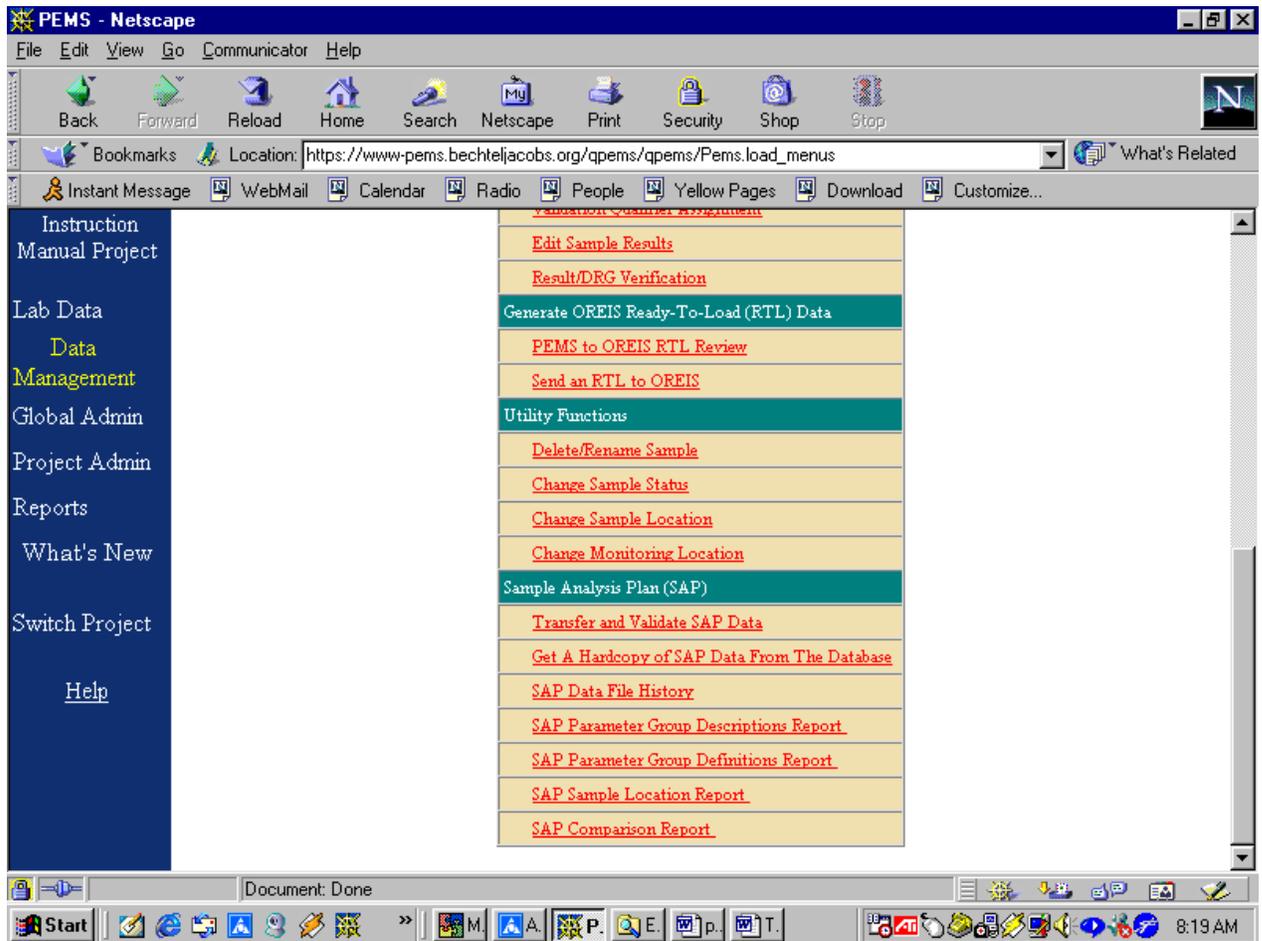
Change Monitoring Location Query Screen



This screen allows the user to select the Old Monitoring Location to be replaced by the New Monitoring Location.

By clicking the *OK* button, it updates the New Monitoring Location and displays a message 'Project: XXXXX old location: XXX has been changed to new location: XXX'.

SAMPLE ANALYSIS PLAN



The Sample Analysis Plan (SAP) allows users to load some information into PEMS. This is helpful for large, on going projects that sample the same locations for the same methods. Excel files taken from a Sample Analysis Plan may be inserted into tables in PEMS when creating a project in PEMS. The user must have Project Data Coordinator (PDC) access to another project to be able to load the SAP files

By clicking the *Transfer and Validate SAP Data*, it displays the SAP Data Load Query Screen.

By clicking the *Get A Hardcopy of SAP Data From The Database*, it displays the Get A Hardcopy of SAP Data From The Database Query Screen.

By clicking the *SAP Data File History*, it displays the SAP Data File History Query Screen.

By clicking the *SAP Parameter Group Descriptions Report*, it displays the SAP Group Descriptions Query Screen.

By clicking the *SAP Parameter Group Definitions Report*, it displays the SAP Group Definitions Query Screen.

By clicking the *SAP Sample Location Report*, it displays the SAP Sample Location Query Screen.

By clicking the *SAP Comparison Report*, it displays the SAP Comparison Query Screen.

Transfer and Validate SAP Data

The file structures for each SAP file are listed below. Save the files as described. Before loading, delete the column headers.

File 1: Parameter Group Descriptions (comma delimited). The file should be saved in text format and file the name should end with **.des**. A parameter group code cannot be reused from year to year. Users should append the code with the year, i.e., RADS04.

Field Number	Field Name	Max Width	Definition
1	FY	4	Fiscal Year
2	Parameter_Group	10	Parameter Group code
3	Parameter_Group_Description	80	Parameter Group description from PEMS

File 2: Parameter Group Definitions (comma delimited). This text file should end with **.def**.

Field Number	Field Name	Max Width	Definition	Valid Values
1	FY	4	Fiscal Year	
2	Parameter_Group	10	Parameter Group code	See File 1 structure: Parameter_Group field for list of valid Values
3	Analyte_Name	90	Chemical name for the analyte	See Chemical Name in OREIS Parameter Code list
4	Detection_Limit	14	Method Detection Limit	
5	Detection_Unit	10	See Units in OREIS Unit list	
6	Analyte ID	9	CAS number or pseudo-CAS number. This field is optional	See Parameter in OREIS Parameter Code list

Transfer and Validate SAP Data

continued

File 3: Sample Locations (comma delimited). This file should end with **.smp**.

Field Number	Field Name	Max Width	Definition	Valid Values
1	FY	4	Fiscal year	
2	Project_ID	10	Identifier for the project the sample is a part of	Must match an existing PEMS project ID
3	Watershed_Name	10	Watershed location	
4	Task	5	Task Grouping	
5	Station_Name	15	Sample Location	See PEMS Monitoring Locations in Global Admin Section
6	Matrix_ID	2	A code for the sample matrix	See OREIS MED-TYPE
7	Sampling_Frequency	20	Sampling Frequency	WK – weekly, M – Monthly, Qx fiscal quarter
8	Field_Duplicate	1	Is Field Duplicate required	Y or N
9	Parameter_Group	100	List of parameter groups	See File 1 structure: Parameter_Group field for list of valid values

Note: SAP files cannot be resubmitted. It requires a SQL update. If a file needs to be changed and resubmitted, please contact PEMS support.

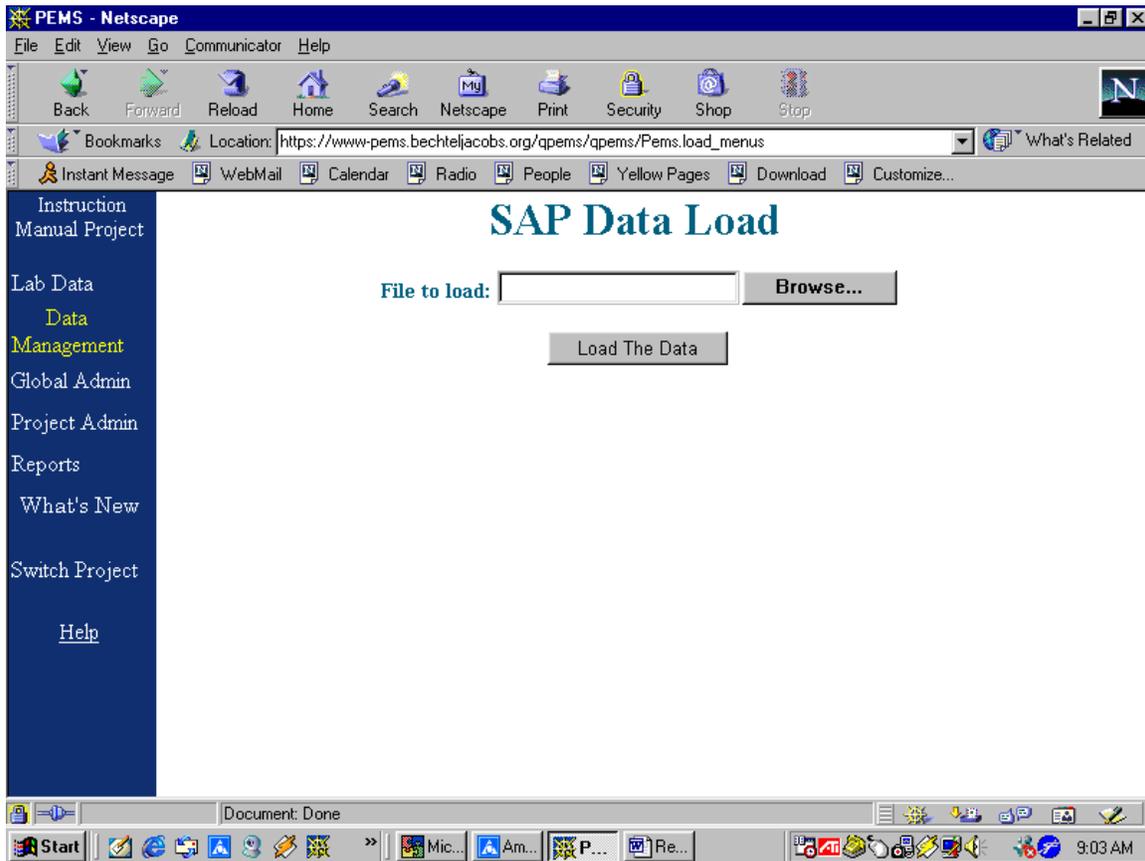
Transfer and Validate SAP Data

continued

SAMPLING FREQUENCY VALID VALUES TABLE

FREQUENCY CODE	FREQUENCY DESC.	FREQUENCY
Q1	First Quarter	1
Q2	Second Quarter	1
Q3	Third Quarter	1
Q4	Fourth Quarter	1
Q1;Q2	First and Second Quarter	2
Q1;Q3	First and Third Quarter	2
Q1;Q4	First and Fourth Quarter	2
Q2;Q3	Second and Third Quarter	2
Q2;Q4	Second and Fourth Quarter	2
Q3;Q4	Third and Fourth Quarter	2
Q1-4	First thru Fourth Quarter	4
Q1-3	First thru Third Quarter	3
WK	WEEKLY	52
M	Monthly	12
BI-M	Bi-Monthly	6
D	Daily	365
ANNUALLY	Annually	1
2/WK	Twice Per Week	104
N/A	Not Applicable	0
1OCT-30NOV	Specified Period	1
DEC-JAN	Specified Period	1
1	1 Sample	1
2	2 Samples	2
3	3 Samples	3
4	4 Samples	4
5	5 Samples	5
6	6 Samples	6
7	7 Samples	7
8	8 Samples	8
9	9 Samples	9

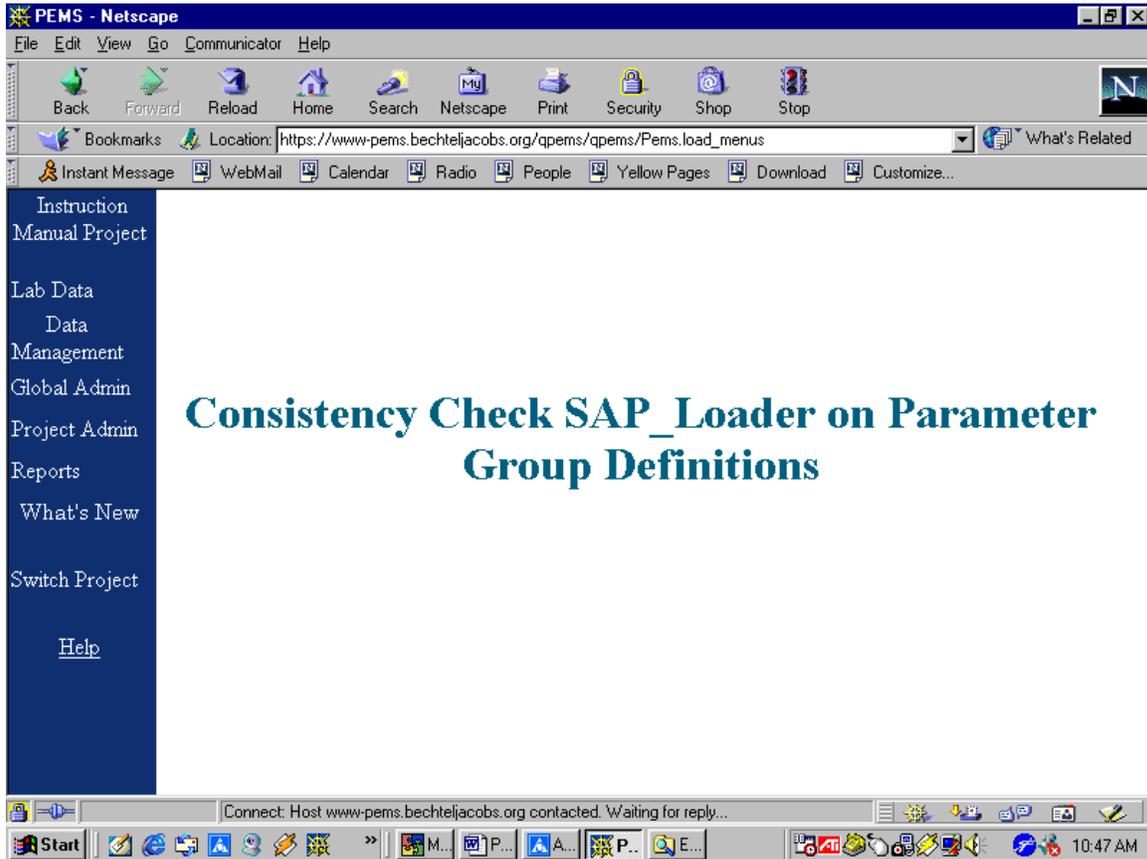
SAP Data Load Screen



Files may be loaded into the PEMS database that enter data automatically to the Project Admin. section.

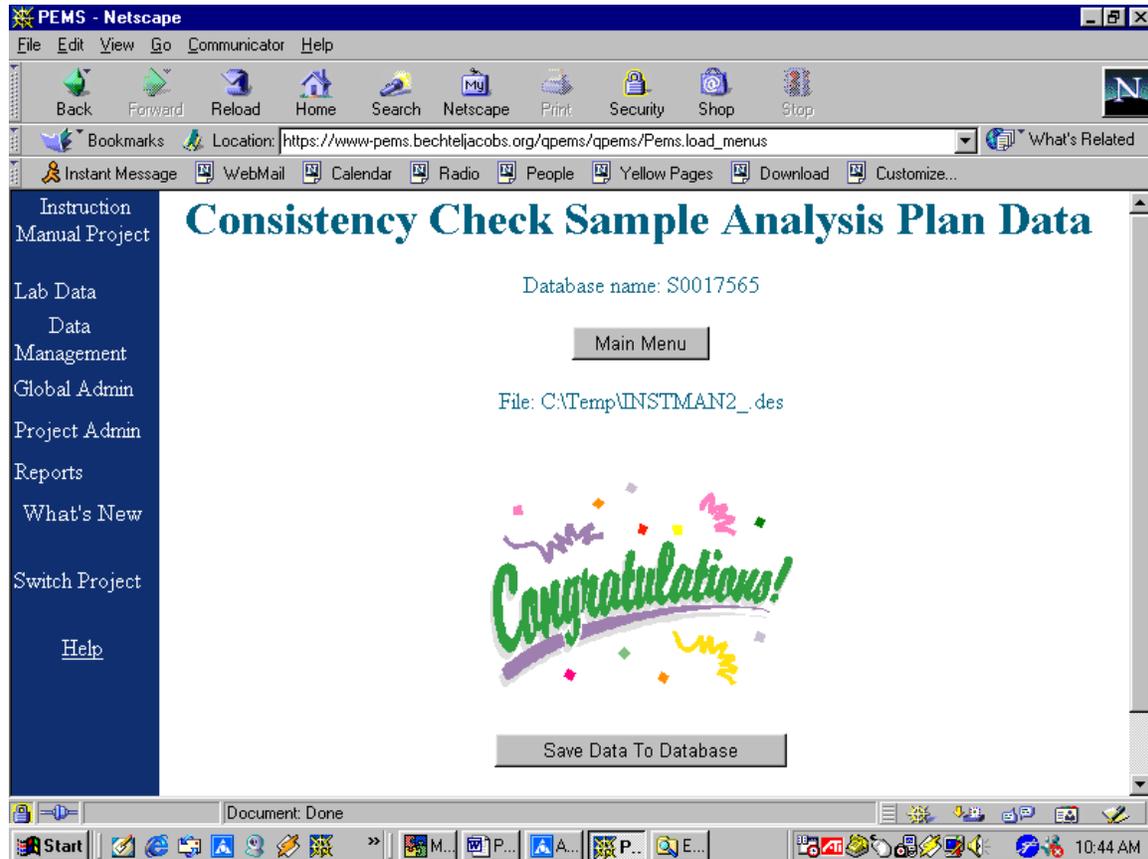
This screen allows the user to enter the SAP filename or select it using the *Browse* button. By clicking the *Load The Data* button, it processes data validation and displays the Consistency Check SAP_Loader Screen for a selected file type (**.des**, **.def**, **.smp**).

Sample of Consistency Check SAP Loader Screen



When each file is loaded, the system will run a set of checks on the data.

Consistency Check Sample Analysis Plan Data (Successful Message)

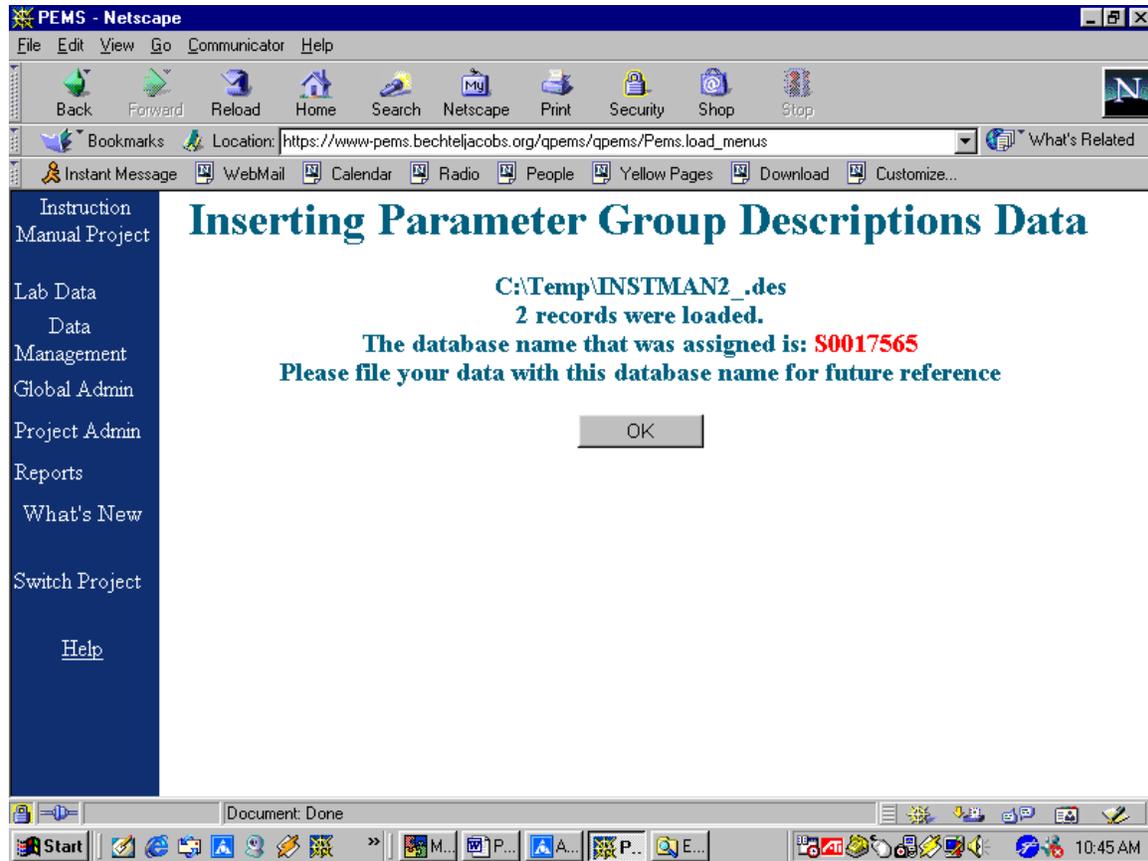


This screen is displayed when it passes the data validation.

By clicking the *Save Data To Database*, it will insert new records into PEMS and displays a screen with inserting information.

By clicking the Main Menu button, it returns to the Data Management Main Screen.

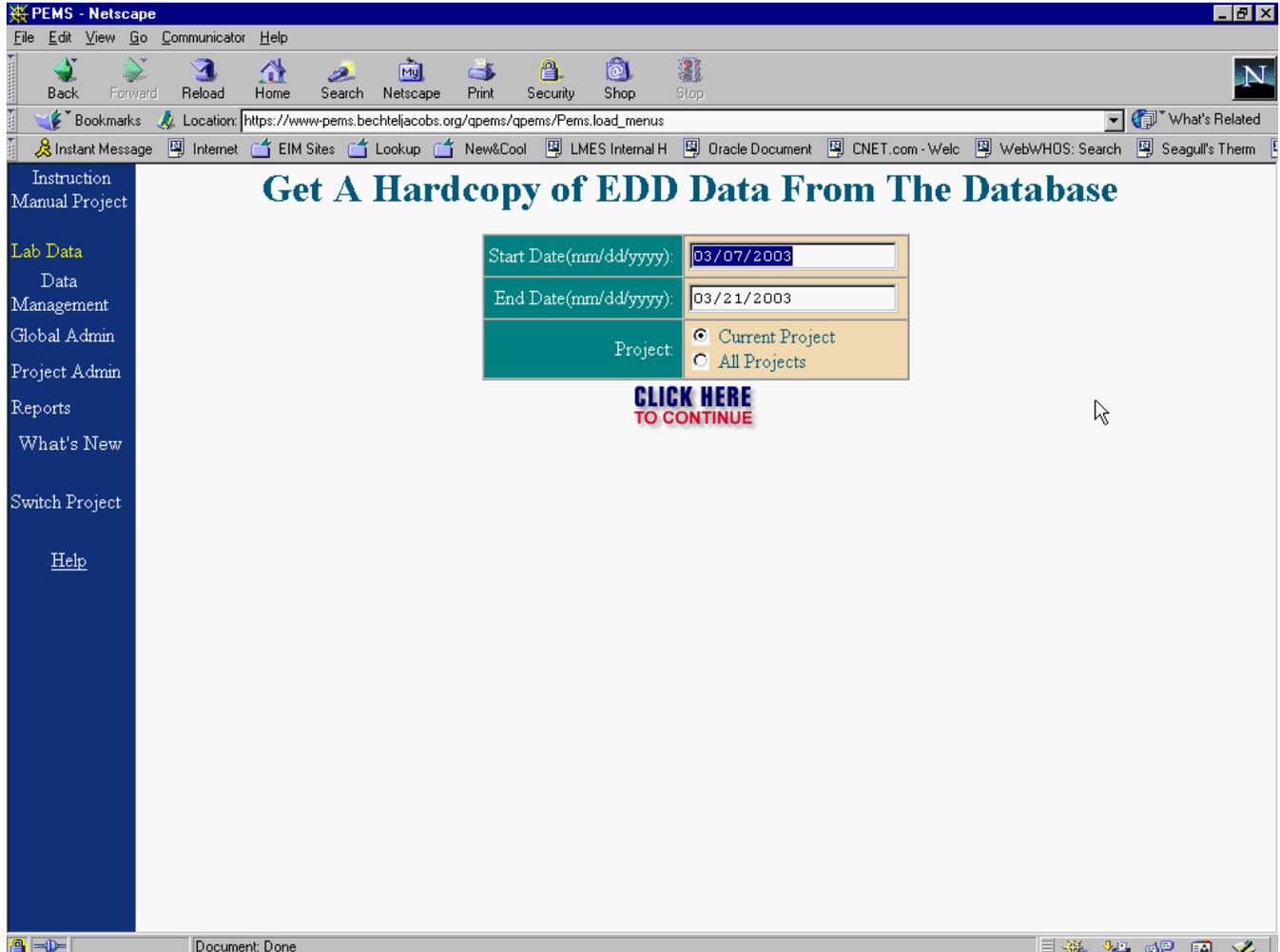
Sample of Inserting Data into PEMS



The system will assign a unique database number to each file. A new project can now be created incorporating the files just loaded project. Tracker would then pull these files from PEMS to create portions of the Tracker SOW.

By clicking the *OK* button, it returns to the Data Management Main Screen.

Get A Hardcopy of SAP Data from the Database Query Screen



This screen allows the users to retrieve a copy of a SAP file. The user can retrieve data from the current or all projects with access privilege. The default date range is two weeks and it can be modified. By clicking the Continue icon, it displays the Get a hardcopy of SAP Data from the Database List Screen.

Get A Hardcopy of SAP Data From the Database List Screen

The screenshot shows a web browser window with the following content:

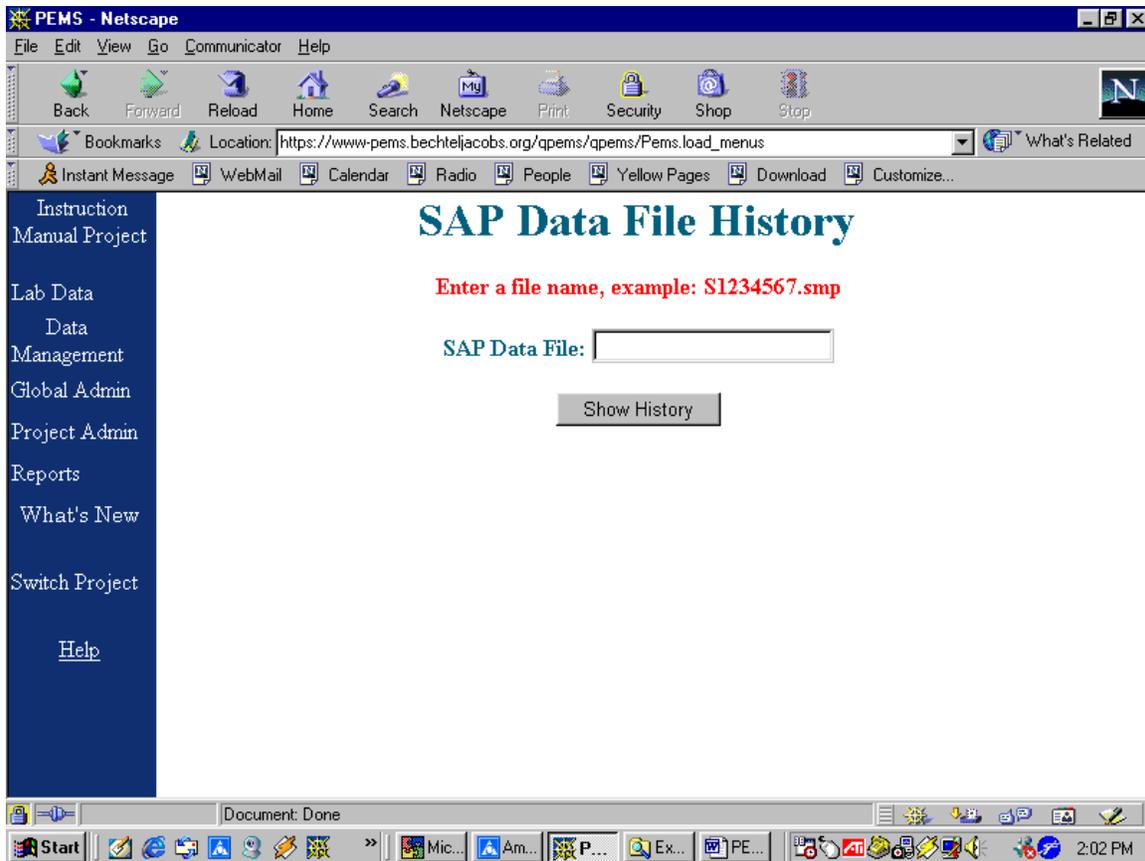
Address: https://www-pems.bechteljacobs.org/qpems/qpems/Pems.load_menus

Get A Hardcopy of SAP Data From The Database

Data Files					
Date Loaded	Database Name	Original File Name - Project	File Type	Userid	
Thursday - 04/22/2004 11:45 am	S0017566	C:\Temp\INSTMAN2_def - INSTMAN	DEF	QA	
Thursday - 04/22/2004 11:41 am	S0017565	C:\Temp\INSTMAN2_des - INSTMAN	DES	QA	
Thursday - 04/22/2004 11:36 am	S0017564	C:\Temp\INSTMAN2_des - INSTMAN	DES	QA	
Monday - 02/02/2004 07:37 pm	S0017504	C:\qsys\pems\pems\keb2_smp.smp - EWQP-2003	SMP	DBW	
Monday - 02/02/2004 07:37 pm	S0017503	C:\qsys\pems\pems\keb2_def.def - EWQP-2003	DEF	DBW	

This screen displays a list of files according to the given query. To retrieve a file, click the desired database name. The PC window will appear asking for the directory to keep the file. The filename can be changed at this time. Clicking the “Save” button will save the file to the selected directory.

SAP Data File History Query Screen



This screen allows the user to enter the database number for a particular SAP file and view the contents of that file.

By clicking the Show History button, it displays the History of Data File Screen.

History of Data File Screen

ORNL Water Quality Project - FY2004

Lab Data

Data

Management

Global Admin

Project Admin

Reports

What's New

Switch Project

Help

History of Data File:

CLICK HERE TO CONTINUE

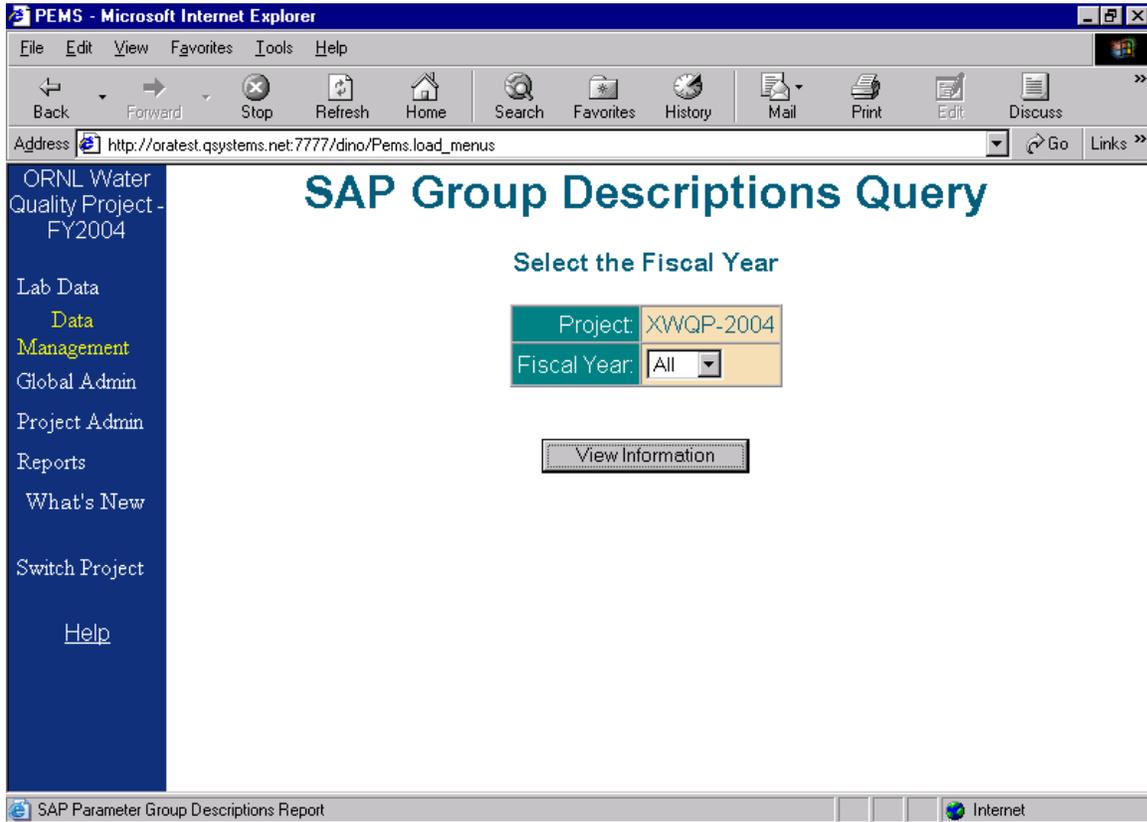
Current File Information	
EDD Name	General Info
S0032696	Errors: No Errors File Type: SMP Original Name: D:\pems\keb2_smp.smp Project: EWQP-2003 Userid: DBW EDD Date: 02/02/2004 03:49:pm
S0032695	Errors: Errors File Type: SMP Original Name: D:\pems\keb2_smp.smp Project: EWQP-2003 Userid: DBW EDD Date: 02/02/2004 03:48:pm
S0032694	Errors: Errors File Type: SMP

Done Internet

This screen displays a list of SAP file Information according to the given query. The Current file Information listing shows the EDD Name and general information about the SAP file.

By clicking the Continue icon (not shown), it returns to Data Management Main Screen.

SAP Group Descriptions Query Screen



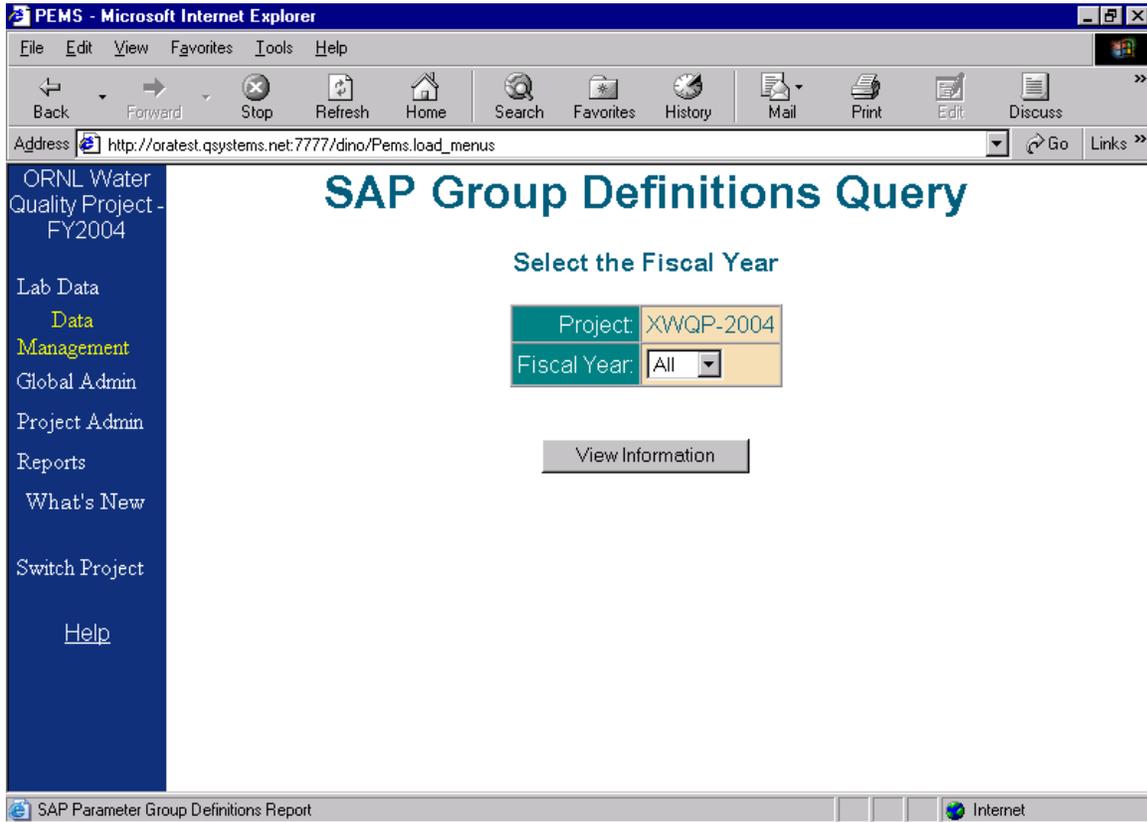
This screen allows the user to select all or a particular fiscal year.

By clicking the *View Information* button, it generates the SAP Parameter Group Descriptions Report in Microsoft Word Rich Text Format (.rtf).

Sample of SAP Parameter Group Descriptions Report

Fiscal Year	Parameter Group Code	Parameter Group Description
2003	ETTP11-RAD	Gross Alpha/Beta, Sr-90, Tc-99, Th-228, Th-230, Th-232, U-234, U-235, U-238
2003	ION2-FY03	Nitrate (as N) [preserved]
2003	PCB-FY03	Polychlorinated biphenyls
2003	VOC2-FY03	Methane, ethane, ethene
2004	SO-GAS-04	Soil Gas
2004	SO-HG-04	mercury
2004	SO-RAD1-04	Sr-90
2004	SO-RAD2-04	U-Isotopic
2004	SO-RAD3-04	Gross Alpha/Beta
2004	SO-RAD4-04	Gamma Spec
2004	SO-RAD5-04	Cm-243/244
2004	SO-VOC-04	VOCs
2004	W-BIO-04	bioremediation paramns
2004	W-HG-04	mercury
2004	W-MET-04	Dissolved Metals
2004	W-RAD1-04	Sr-90
2004	W-RAD2-04	U-Isotopic
2004	W-RAD3-04	Gross Alpha/Beta
2004	W-RAD4-04	Gamma Spec

SAP Group Definitions Query Screen



This screen allows the user to select all or a particular fiscal year.

By clicking the *View Information* button, it generates the SAP Parameter Group Definitions Report in Microsoft Word Rich Text Format (.rtf).

Sample of SAP Parameter Group Definitions Report

SAP_Def_Print - Microsoft Word

File Edit View Insert Format Tools Table Window Help

100% Times New Roman 9 B I U

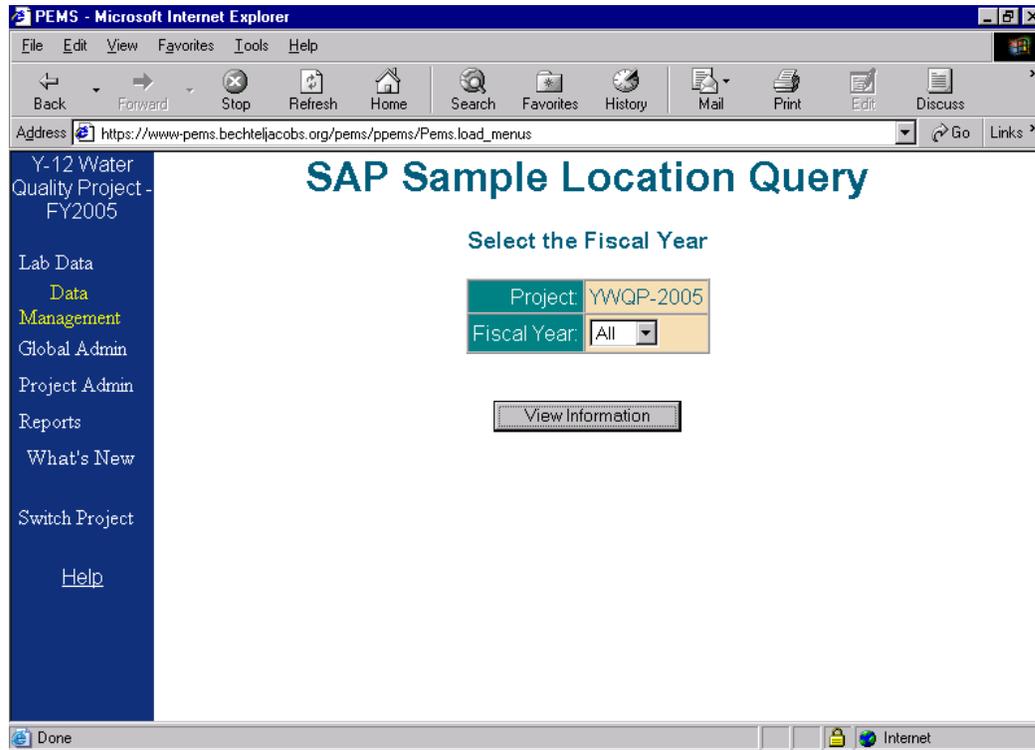
Project Environmental Measurement System (PEMS)
SAP Parameter Group Definitions

Page: 1
Date: 11/11/2004 3:49 PM

Fiscal Year	Parameter Group Code	Analyte Name	Analyte ID	Detection Limit	Detection Unit
2003	ETTP11-RAD	Alpha activity	12587461	3.7500	PCIL
2003	ETTP11-RAD	Beta activity	12587472	6.4400	PCIL
2003	ETTP11-RAD	Strontium-89/90	N2777	2.6000	PCIL
2003	ETTP11-RAD	Strontium-90	10098972	2.7900	PCIL
2003	ETTP11-RAD	Technetium-99	14133767	9.6400	PCIL
2003	ETTP11-RAD	Thorium-228	14274829	0.4300	PCIL
2003	ETTP11-RAD	Thorium-230	14269637	0.3900	PCIL
2003	ETTP11-RAD	Thorium-232	N2608	0.2400	PCIL
2003	ETTP11-RAD	Uranium-233/234	NS632	0.2700	PCIL
2003	ETTP11-RAD	Uranium-235	15117961	0.1100	PCIL
2003	ETTP11-RAD	Uranium-238	24678828	0.1200	PCIL

Page 1 Sec 1 1/6 At 1.9" Ln 1 Col 1 REC TRK EXT OVR

SAP Sample Location Report



This screen allows the user to select all or a particular fiscal year.

By clicking the *View Information* button, it generates the SAP Sample Locations Report in Microsoft Word Rich Text Format (.rtf).

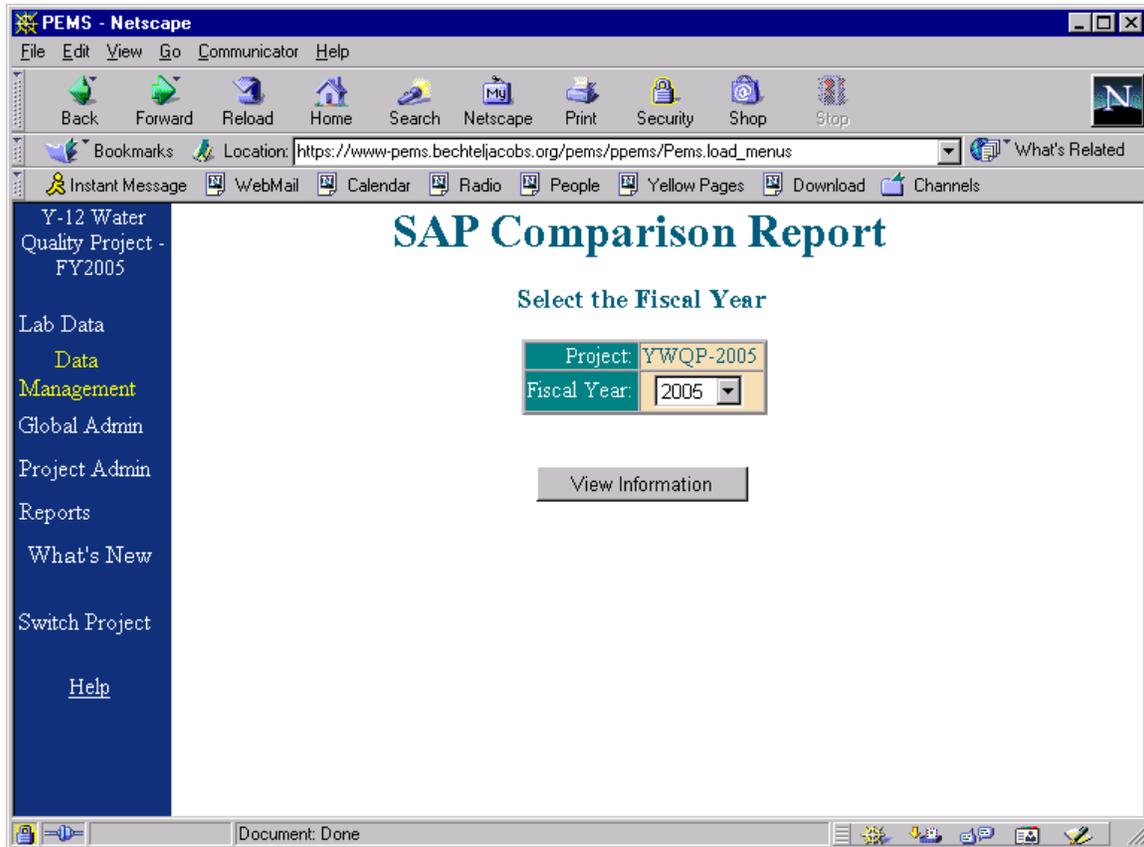
Sample of SAP Sample Locations Report

Project Environmental Measurement System (PEMS)
SAP Sample Locations

Fiscal Year	Project ID	Watershed Name	Task	Station Name	Matrix ID	Sampling Frequency	Field Dup.	
2005	YWQP-2005	BC	BCW1	GW-008	WG	Q2;Q4	N	GAB;MET1,3F
2005	YWQP-2005	BC	BCW1	GW-046	WG	Q2;Q4	N	GAB-TC-U;MI
2005	YWQP-2005	BC	BCW1	GW-276	WG	Q2;Q4	N	BCW1-RADIS FY05;VOC1-F
2005	YWQP-2005	BC	BCW1	GW-712	WG	Q2;Q4	N	GAB-TC-U;JO FY05
2005	YWQP-2005	BC	BCW1	GW-713	WG	Q2;Q4	Y	GAB-TC-U;JO FY05
2005	YWQP-2005	BC	BCW1	GW-714	WG	Q2;Q4	N	GAB-TC-U;JO FY05
2005	YWQP-2005	BC	BCW1	SS-6	WS	Q2;Q4	N	GAB-TC-U;JO FY05
2005	YWQP-2005	BC	BCW11	BCK 3.3	QA	Q1;Q3	N	BMET1,4PCB;
2005	YWQP-2005	BC	BCW11	BCK 9.9	QA	Q1;Q3	N	BMET1,4PCB;
2005	YWQP-2005	BC	BCW11	BCK 13.4	QA	Q1;Q3	N	BMET1,4PCB;

Page 1 Sec 1 1/6 At 1.9" Ln 1 Col 1 REC TRK EXT OVR

SAP Comparison Report



Project personnel or data validator run the 'SAP Comparison Report' after the laboratories have loaded electronic data deliverables into PEMS. This report compares what was asked for in the SAP (number of samples requested by analysis group, station, matrix, etc.) with results received. This screen allows the user to select a particular fiscal year.

By clicking the *View Information* button, it generates the SAP Comparison Report.

Sample of SAP Comparison Report

Project Environment Measurements System(PEMS)
SAP Comparison Report
 Project: **YWQP-2005**
 Fiscal Year: **2005**

Watershed Name	Task	Station Name	Matrix	Parameter Group Code
BC	BCW1	GW-008	WG	GAB;MET1,3FY05;MET2-FY05;VOC1-FY05
BC	BCW1	GW-046	WG	GAB-TC-U;MET2-FY05;VOC1-FY05
BC	BCW1	GW-276	WG	BCW1-RAD05;ION2-FY05;MET1,3FY05;MET2-FY05;VOC
BC	BCW1	GW-712	WG	GAB-TC-U;ION2-FY05;MET1-FY05;MET2-FY05;VOC
BC	BCW1	GW-713	WG	GAB-TC-U;ION2-FY05;MET1-FY05;MET2-FY05;VOC
BC	BCW1	GW-714	WG	GAB-TC-U;ION2-FY05;MET1-FY05;MET2-FY05;VOC
BC	BCW1	SS-6	WS	GAB-TC-U;ION2-FY05;MET1-FY05;MET2-FY05;VOC
BC	BCW11	BCK 3.3	QA	BMET1,4PCB;BMET2
BC	BCW11	BCK 9.9	QA	BMET1,4PCB;BMET2
BC	BCW11	BCK 12.4	QA	BMET1,4;BMET2
BC	BCW11	HCK FISH REF	QA	BMET1,4PCB;BMET2

By clicking the Back To Query button (not shown), it returns to the SAP Comparison Report Query Screen.

GLOBAL ADMINISTRATION

Test of PEMS functionality after upgrade of OS to Solaris 9

Lab Data
Data
Management
Global Admin
Project Admin
Reports
What's New
Switch Project
Help

Global Administration

PEMS Tables - Update Option

Badged Person	Company
Database Role	Data Form Type
Equipment Type	Field Activity Method
Field Equipment	Monitoring Location
Parameter Analysis Group	Preservative
Sample Container Type	Sample Status
Sampling Device	Sampling Procedure
Users	Valid Qualifier Reason

Tracker Information - Read Only

(Changes will require a TRACKER change request)

[Laboratory SOW](#)

OREIS related tables - Update Option

Analysis Method	Matrix Type
Measurement Unit	Parameter
Sample Type	Valid Result Qualifier
Analysis Type	Data Assessment

Some fields used in the PEMS system are shared by two other Environmental Information (EIM) systems. The applications listed under the 'OREIS related tables' header display information that is present in both the PEMS and OREIS systems. PEMS synchronizes the information for these fields twice daily to ensure that the latest information added to OREIS is included in PEMS. The applications listed under the 'Tracker Information' header list data that is present in the Tracker system. As this information is retrieved from Tracker when needed, there is no refresh for these fields.

PEMS tables can be updated according to the user privilege's role. The user with Project_Data_Coordinator can update all the global tables in PEMS. If the user needs to update any table but does not have capability to do, please contact PEMS support.

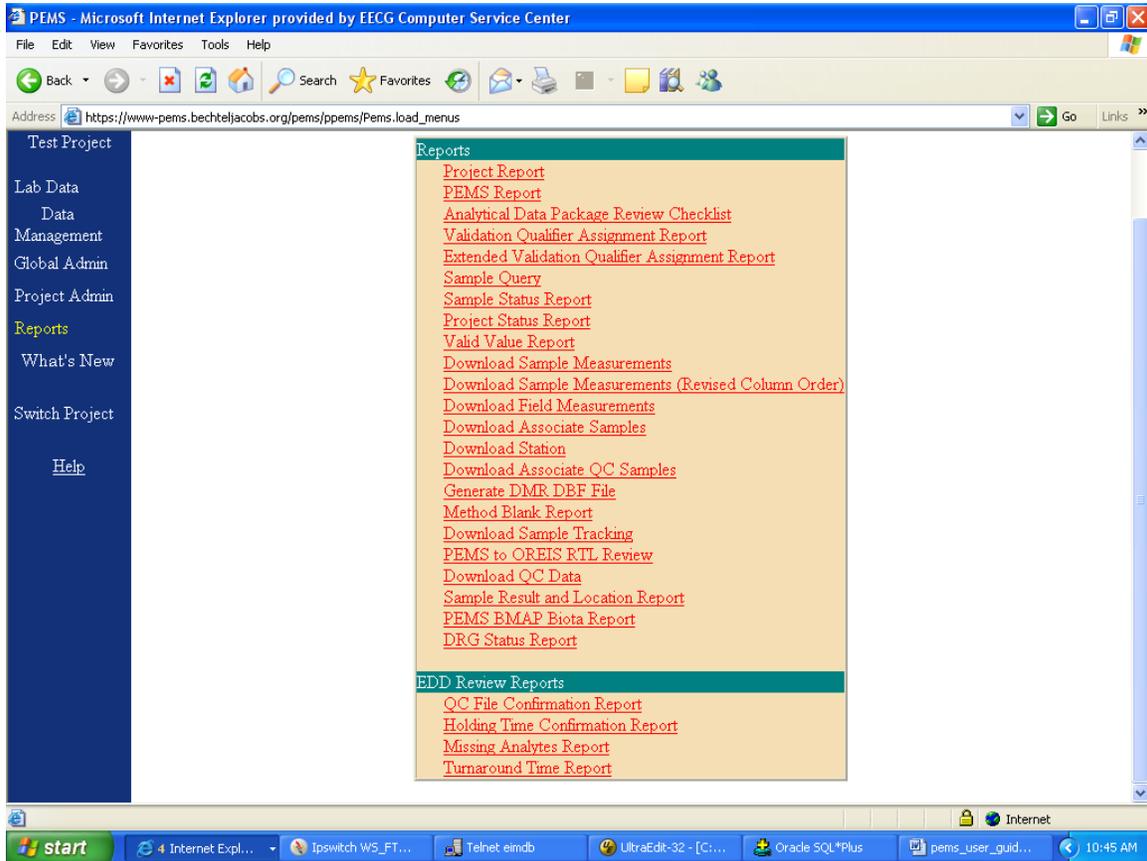
Global Administration

Continued

The application names and its brief summary are presented in the following table.

Application Name	Purpose
Analysis Method	List of valid methods
Analysis Type	List of analysis types and descriptions
Badged Person	List of persons by badge number, user id and company
Company	List of companies managing projects
Data Assessment	List of the valid data assessment codes and their definitions
Database Role	List of roles the DBA can assign personnel
Data Form Type	List of forms that can be used. Default is FAS-01, field COC
Equipment Type	List of equipment description by type
Field Activity Method	List of field activity description by method code
Field Equipment	List of equipment by id, includes active and inactive
Laboratory	List of laboratories that have or are performing work
Matrix Type	List of matrices by code
Measurement Unit	List of results units used by the laboratories
Monitoring Location	List of locations that can be viewed, added or edited by project
Parameter	List of analytes that can be requested by the project
Parameter Analysis Group	List of analyses that can be grouped together by container
Preservative	List of preservatives for containers
Sample Container Type	List of containers by size and material
Sample Status	List of statuses a sample can be assigned
Sample Type	List that defines quality control/assurance samples
Sampling Device	List of sampling devices that can be assigned
Sampling Procedure	List of sampling procedures that can be assigned and used
SOW	Tracker or non-Tracker statement of work number
User Information	User can update own information
Valid Qualifier Reason	List of validation qualifier reasons that can be assigned
Valid Result Qualifier	List of validation qualifiers that can be assigned to data

Reports Main Menu



The user can access PEMS data by using the listed reports.

Report Name	Description
Project Report	List of project information for all the projects in the systems.
PEMS Report	List of fields to be selected by user. Fields are primary sample fields, coordinates, results and qualifiers.
Analytical Data Package Review Checklist	List of Lab Chain of Custody information for a selected Lab COC. The Lab COC information can be download in EXCEL format.
Validation Qualifier Assignment Report	List of lab results, validation qualifiers, and reason codes based on selected lab code, filename, sample id, and analysis type.
Extended Validation Qualifier Assignment Report	Same as Validation Qualifier Assignment Report. It includes dilution, replicate no, use_flag, reporting basis and excludes surrogates and tracers.
Sample Query	List of lab results, validation qualifiers, and reason codes via lab, DRG, and analysis type for a selected sample id.
Sample Status	List of sample information based on selected sample status code (Planned, Shipped Lab, etc) and date range.
Project Status Report	List of the total number of stations and samples collected that have shipped to the labs for a selected site.
Valid Value Report	Take the user to Global Administration screen and let the user to check on valid codes and values used for various fields.
Download Sample Measurements	List of Sample Measurements based on selected date range, DRG #, location and task code in EXCEL format. (The original version preferred by some users.)
Download Sample Measurements (Revised Column Order)	List of Sample Measurements based on selected date range, DRG #, location and task code in EXCEL format. (The latest version with re-arranged columns.)
Download Field Measurements	List of Field Measurements based on selected date range, location and task code in EXCEL format.
Download Associate Samples	List of associated samples and associated reason codes in EXCEL format.
Download Station	List of station information in EXCEL format. It is used to check the RTL before sending data to OREIS.

Download Associate QC Samples	List associations between field QC and regular samples in EXCEL format.
Generate DMR DBF File	List of sample result information for a selected month and year.
Method Blank Report	List of electronic download information for method blank based on the selected file name.
Download Sample Tracking	List of location, sample id, date collected, sample type, date shipped, lab, SOW, analysis, and no. of records based on selected project and sample date range in EXCEL format.
PEMS to OREIS RTL Review	Used for verifying all required information to produce OREIS RTL based on selected task code and sample collection date range.
Download QC Data	List of QC analytical result data (LCS, Method Blank, etc.) in EXCEL format based on selected analysis date range, DRG number, sample delivery group, and batch number.
Sample Result and Location Report	List of user-defined set of data fields for TIC, TIR and regular analytical results in EXCEL format based on selected sample collection date range, SOW, DRG number, monitoring location, and Task Code.
PEMS BMAP Biota Report	List of biota sample information. The biota sample information can be download in EXCEL format.
DRG Status Report	List of data receipt group file information including the lock status.
EDD Review Reports	Description
QC File Confirmation Report	List of SOW, file name, date loaded, and missing QC file for a selected project.
Holding Time Confirmation Report	List of sample and holding time information extracted from Tracker for a selected SOW.
Missing Analytes Report	List of sample and missing analytes information for a selected SOW.
Turnaround Time Report	List of sample and turnaround time information extracted from Tracker for a selected SOW.