User Manual

Underground Injection Control Data Application

User Manual
Underground Injection Control Data Application

U.S. Environmental Protection Agency
Office of Ground Water and Drinking Water
Washington, DC 20460

This page is intentionally blank

Table of Contents

Table of Contents

Table of Figures

List of Tables

Table of Acronyms and Definitions

.csv. *comma-separated value file*
.docx. *Microsoft Word document file*
.pdf. *Adobe Acrobat portable document format file*
.xlsx. *Microsoft Excel file*
7520. *Form 7520*
MS. *Microsoft*
UIC. *Underground Injection Control*

This page is intentionally blank

Purpose

The purpose of the manual is to provide instructions on reporting Underground Injection Control (UIC) well inventory and information required on Form 7520-1 through 7520-4 using the new UIC Data Application. The manual identifies current reporting requirements including changes made during application development and the reporting methods supported by the new UIC Data Application.

Introduction to the Underground Injection Control Data Application

The EPA developed the new UIC Data Application (referred to as the Application) in 2018 using current technology and tools to streamline and modernize data collection. The Application replaces the hardcopy Form 7520, National UIC Database, and Inventory and Measures Reporting System with a single web-based site that works for all programs regardless of the individual program's data management strategies. The UIC Data Application supports direct data entry using web forms or batch upload of data using Microsoft (MS) Excel spreadsheets (.xlsx) or comma separated value (.csv) files that conform to a specified structure. Most importantly, the Application allows users to efficiently use the collected data by downloading raw datasets or by using the figures and tables created using data visualization software.

The User Manual provides instructions and documentation in an easily understandable format to assist with the process of submitting UIC data to EPA. Users will find information about using the data analytics and data download features found in the Application as well. The main report highlights the functions that all users have in common. Appendices focus on reference information that users may need to consult or specific topics for which users may appreciate more in-depth information. An appendix is also devoted to features available specifically for EPA Regional users.

Access to the UIC Data Application

The UIC Data Application is located at https://uicdata.epa.gov. Access to the Application is restricted to authorized EPA or primacy program users with an account.

Access for State and Tribal Users

Primacy program users must have an EPA Web Application Access account to access the UIC Data Application. Users with an existing EPA Web Application Access accounts should email uicdatacollection@epa.gov with a request for access to the UIC Data Application. Users without an existing Web Application Access account should navigate to https://uicdata.epa.gov to access the self-registration and login page. To establish the Application account, users will click on the "Self Register" link at the top of the page, as shown in Figure 1.

The self-registration form asks the state or tribal user to designate an EPA contact as a sponsor for their account, as shown in Figure 2. The EPA contact may be either the EPA Regional UIC Program Data Coordinator or the primacy program's project officer at the EPA Region. If users are unsure who to name as the EPA contact, they may email uicdatacollection@epa.gov to request the information.

The next section of the self-registration form requests information such as the name, email, work address, and work phone for the state or tribal user. The user will also create their account password.

The last section of the form requires the user to select the Community or Application for which they are requesting access, as shown in Figure 3. The user should use the drop-down list to select *UIC Data*

Application. The final step in creating the account is to check the box to accept the EPA Privacy & Security Notice and click the "Submit Registration" button (Figure 3).
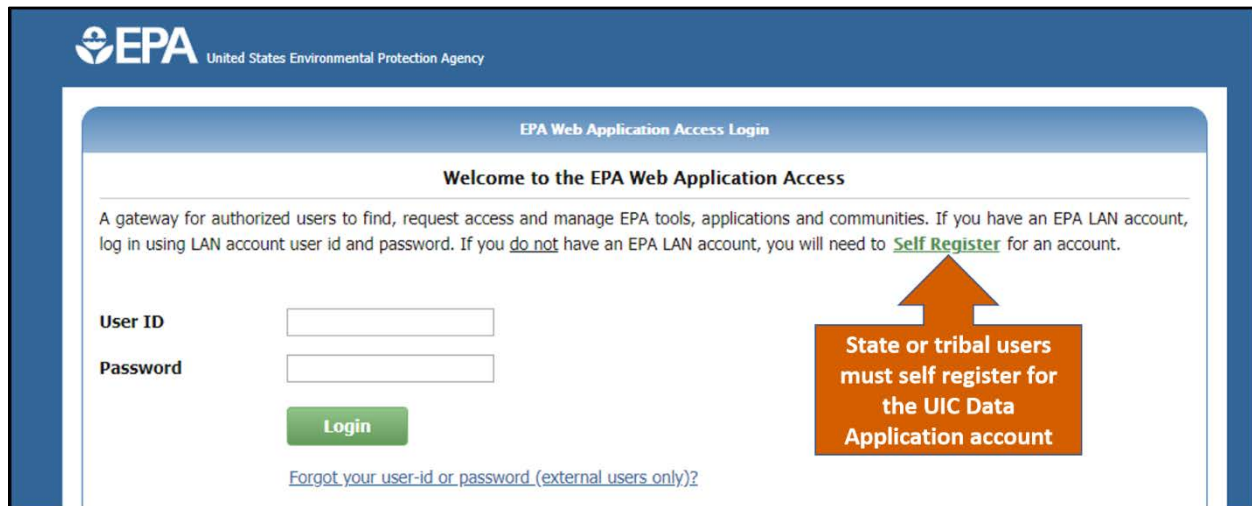
Figure 1. State or tribal users should click on "Self Register" to begin the process of establishing an account for the UIC Data Application.

The primacy program user will receive two emails from wam_support@epa.gov after self-registration. The first email will confirm that they self-registered. The second email will confirm that the user may access the Application and provides the User ID.

Primacy program users will login to the UIC Data Application from https://uicdata.epa.gov. The password for the account is the same as entered during self-registration. If the user forgets their password, they may click on "Forgot your user-id or password (external users only)?" link to be emailed a new password (Figure 1).

Figure 2. State or tribal users should list their EPA Regional Data Management Coordinator as the EPA contact in the self-registration form.

Figure 3. State or tribal users should select "UIC Data Application" from the list of Communities or Applications for which they are requesting access.

Access Information for EPA Users

Obtaining Accounts for EPA Users

Employees of EPA will access the UIC Data Application at http://uicdata.epa.gov using their EPA local area network (LAN) username and password. EPA employees with existing accounts for the UIC Data Application development site have had accounts configured for them by the Application administrators. If EPA UIC staff without existing access to the development site wish to access the UIC Data Application, they should email uicdatacollection@epa.gov with a request for access. An email will be sent to EPA staff when the account is configured and access to the Application is available.

Assisting Primacy Program Users with Access

The EPA instructs primacy program users who request access to the UIC Data Application to list the EPA Regional Data Management Coordinator as the EPA contact during self-registration (Figure 2). The EPA contact will receive an email requesting confirmation that the state or tribal user should receive access to the Application. The Application administrators will be copied on the email to the EPA contact. The contact should respond using "reply all" to confirm the state or tribal user's access request and include the name of the user's agency.

Only authorized EPA staff and state or tribal UIC program staff will receive access to the Application. If an EPA contact receives a request from an organization other than EPA or primacy UIC programs, please send the request to uicdatacollection@epa.gov so the administrators may contact the requestor.

Layout of the Application

Once the user logs into the UIC Data Application, the launch page opens. The launch page displays the modules available for access to users as well as user support materials, as shown in Figure 4. The modules are located in the navigation bar at the top of the page and include Well Inventory, 7520, Annual Narratives, and Reports (Figure 4). Users may access the specific features for each module by clicking on the down arrow symbol beside each module name and choosing the feature from the drop-down menu that appears.

Updating User Information, Email Preferences, and Password Reset

Users may update their contact information and email preferences by clicking on their username in the upper right corner of the window, as shown in Figure 5. A pop-up window appears with two tabs, which allows users to edit the form fields. The "User Information" tab allows edits to job title, phone number, and address. The "Email Preferences" tab, shown in Figure 6, allow the user to specify whether they would like email notification for data status changes on demand—when the change occurs—or as daily summary that lists all the changes occurring between 3:00 pm Eastern time the previous day and 3:00 pm Eastern time on the present day. Multiple data status changes may happen in a day for multiple forms, making the daily summary email option convenient for those who wish to minimize the number of emails received from the Application. Users may also reset their password by clicking on the "Reset Password" link.

User Support Materials

User support materials such as training slides, training videos, batch upload template spreadsheets, and the user manual are found in two locations:

1. The EPA's Resources for Transition to the New UIC Data Reporting Process website, https://www.epa.gov/uic/resources-transition-new-uic-data-reporting-process, or
2. The launch page of the UIC Data Application, which is accessible after the user logs into the Application (Figure 4). Additional description of the launch page is found in section *Layout of the Application.*

Figure 4. Users may access the modules and user support materials of the UIC Data Application from the launch page after login.

Figure 5. Users may update their mailing address and phone or change passwords by clicking on the username at the top right of the window.

Figure 6. Modify the email notification frequency from the Email Preferences tab of the UIC User pop-up

Workflow Processes

The UIC Data Application utilizes a workflow process to ensure EPA reviews all inventory and 7520 datasets.

1. Primacy programs will enter data and submit to the EPA Region.
2. The Region will review the data, and, if satisfied with the data accuracy, will submit the primacy program's data to EPA Headquarters for final review.
3. Headquarters will then officially accept the data as final if no further clarification is needed.

EPA Regions have an abbreviated workflow to that of primacy programs.

1. Regions will submit data to Headquarters.
2. Headquarters accepts the data as final if no further clarification is needed.

Users will be unable to edit the data when in final status to protect the data quality. If a user needs to correct data, the user will need to notify EPA so the data may be set to draft status again for editing to occur.

The data workflow statuses include the following:

- Draft – the program entered the data without submitting, or the data was returned to the program from the EPA Region or Headquarters.
- Under EPA Region Review – the EPA Region is reviewing the primacy program data. The dataset is locked to editing by the primacy program while the data is under EPA review.
- Submitted to Headquarters – the EPA Region reviewed the program data and submitted the data to EPA Headquarters, or the EPA Region submitted data from a direct implementation program to EPA Headquarters. The dataset is locked to editing by either the primacy program or the EPA Region while the data is under EPA Headquarters review.
- Final – EPA accepted the data as official for the submission period. Users will be unable to edit the data in this status to protect the data quality.

Email Notifications

The UIC Data Application notifies users when the status of data changes or when comments are left in the History tab of a form. The types of notifications that users may receive on demand include the following:

- **Notice that data import was successful and a reminder to submit each form** – the user who imported data using the batch upload templates will receive a notification that the data was successfully imported into individual 7520 forms and a reminder that each form will need to be submitted. This email will be sent two days after the data import if the user has not submitted each 7520 form.
- **Notice of submission** – the user who submitted data will receive notification that data has been submitted by their agency on a particular date.
- **Notice that a program's data was modified** – the user who submitted data may receive a notification if the data was modified after submission. The notification would include the name of the user who made the modification and the date the modification occurred.
- **Notice that EPA returned data to the program** – the user who submitted data may receive a notification if EPA returns the data for corrections. Alternatively, the user may request that EPA return their data if the user found incorrect data in the form after submission.

- **Notice that the EPA Region reviewed data and forwarded the data to EPA Headquarters** – the user will receive a notification when the EPA Region completes its review and submits the data to EPA Headquarters.
- **Notice that EPA finalized the data** – the user will receive a notification when EPA Headquarters officially accepts the data and changes the status to Final.

Daily summary emails sent to users from the Application include only the following notifications: data is created in draft, date is submitted to Regions or Headquarters, or data becomes final. Users should receive notification emails on demand when a draft of the data is created, periodic reminders to submit draft data, or when data was modified. The daily summary email provides a condensed list of data activities occurring between 3:00 pm Eastern the previous day and 3:00 pm Eastern on the present day. The Application sends the daily summary email only if activities occur.

Well Inventory

The UIC Data Application Well Inventory module has two menu items: Inventory and Import, as shown in Figure 7. The third menu item, Bulk Status Change, is only available to EPA and is described in the Regional appendix. The Inventory menu item displays current and past inventory datasets in a table with options to sort, filter, edit, and add new well inventory.
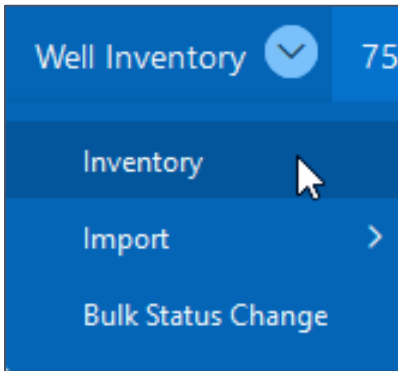
Figure 7. The Well Inventory module in the navigation bar allows users to choose Inventory or Import features.

The UIC well inventory information displayed in the table shown in Figure 8 was previously entered. Users may filter by selecting Primacy Agency and Fiscal Year from the drop-down boxes. Additional sorting and filtering capabilities are available by clicking on the column names. More information on the sorting and filtering capabilities of the Application is found in the section *Reports*.

Each row of the table represents a different dataset. The first column on the left contains either the Edit icon, ⊠ , or the Locked icon, 🔒 (Figure 8). The Edit icon indicates that the row can be changed by an authorized user by clicking on the icon. The Locked Icon indicates that the row cannot be changed unless it is first unlocked by an authorized user.

Some rows of the inventory tables may show an additional icon—the Comment icon, 💬, which indicates if an inventory form has associated comments. The Comment icon quickly alerts and reminds users that additional information is available beyond the data reported on the inventory form.

Figure 8. Current and past well inventory datasets are displayed in the inventory table. Users may filter and sort the data as well as add new well inventory.

Adding and Editing Well Summary Inventory Using Forms

Entering new inventory data manually into a form is the simplest and most foolproof method to submit data. From the Well Inventory table, the user may begin the process by clicking on the "New Well Inventory" button on the right side of the page, above the table (Figure 8). Figure 9 shows the new page that allows the user to choose the federal fiscal year, primacy agency code, program type, and state. These data fields are referred to as header data because it will appear at the top of the page for individual datasets. Users may begin entering inventory data into the form after hitting the "Next" button in the upper right of the page.

Figure 9. The first step in creating a new inventory dataset is choosing the fiscal year, primacy agency code, program type, and state.

The Well Inventory form appears after clicking "Next." Tabs with information for Well Summary, Well Specific, Prior Years Comparison, Status History, and Record Details can be accessed below the header. The user enters data into the form beside each well class found under the Well Summary section of the page, as shown in Figure 10.

The application allows the user to save their data and submit to EPA or save and exit if the user chooses to submit later. If the user chooses to submit later, the dataset may be found in the Well Inventory table (Figure 8) with a status of "Draft."

Figure 10. The Well Inventory form allows the user to enter data for the number of wells of each well class. Data may be saved and submitted, or the user may save and exit if they choose to submit the data later.

To edit an existing dataset in draft status, users should click the Edit icon, 🖉 , in the first column on the left of the Well Inventory table (Figure 8) to display the Well Inventory edit form for that particular year. The edit form looks very similar in structure to the form that allows new well inventory to be added to the application. Users may click on the cells they wish to edit and type in the new data. If the user wishes to save the changes to the data, they should click the "Save" button in the upper right corner. A green box will appear to confirm the data was saved. To exit the form without saving the record, users should click the "Exit" button.

Once the data is submitted, the review workflow begins. Primacy programs submit data to the EPA Region, and the Region will review the data. When the Region is satisfied with the data accuracy, the Region will submit the data to EPA Headquarters. Headquarters will mark the data as final, which prevents further editing.

Adding and Editing Well-Specific Data Using Forms

The "Well-Specific" tab within the well inventory form, shown in Figure 11, allows information for individual wells to be entered. The application will calculate summary well inventory data from the well-specific inventory and automatically populate the Well Summary form. The user should select the "Add Well Specific Inventory" button to add new well-specific data using the webform. A form will appear that allows the user to enter data on well type or well summary class, well ID, well name, operating status, and locational data among other fields. The entry form is displayed in Figure 12. The application will calculate summary inventory after the well-specific inventory is added and the user saves the data. If well-specific inventory data is entered after summary well inventory data has already been entered, then the summary well inventory entry will be overwritten by the value calculated from the well-specific

inventory data. Users should assess the Well Summary form to ensure the application accurately calculated the number of wells from the well-specific inventory data.

Figure 11. Users may enter well-specific inventory from the Well-Specific tab of the Well Inventory form.

Figure 12. Entry form for addition of well-specific inventory.

The application will allow users to enter summary-level inventory for some well classes and well-specific inventory for other classes. The inventory for a single well class cannot be a mixture of summary and well-specific inventory, however. For example, a user enters well-specific inventory for Class 3 wells, checks

the Well Summary tab to ensure the application correctly calculated the summary data from the well-specific data, and finds a mistake in the summary data for the well class. The application prevents the user from changing the Class 3 summary inventory data from the Well Summary tab. The user must correct the well-specific inventory data so the application will re-calculate the accurate summary inventory for Class 3. The Well Summary tab indicates that well-specific inventory was used to calculate summary data by use of a calculator icon, , as shown in Figure 13.

Figure 13. The calculator icon beside a well class in the Well Summary tab of the Well Inventory form indicates the application calculated the summary inventory from well-specific inventory.

If existing well-specific inventory data needs to be edited, users should select the pencil icon, , beside the individual well entry to be edited, as shown in Figure 14. The Well-Specific Inventory form will appear and allow data for the individual well to be changed. To delete Well Specific data, check the box of any rows you wish to delete and click the "Delete Selected" button (Figure 14).

Comparing Current Data to Prior Year Data

One of the simplest ways to evaluate the accuracy of inventory data is to compare the current data to prior year data. Fluctuations in data across years may indicate error. The Prior Years Comparison tab on the Well Inventory form, shown in Figure 15, allows users to compare multiple years of data in the same table.

Figure 14. Well-specific inventory data is listed under the Well-Specific tab after entry. Users may edit the individual well entries by clicking on the pencil icon in the first column at the left. To delete a well entry, the user may check the box in the second column from the left and click the "Delete Selected" button.

Figure 15. Users may compare current and prior year summary well inventory data under the Prior Years Comparison tab of the Well Inventory form.

Inventory History

The review workflow process may be tracked from the "History" tab of the Well Inventory form. The status of the forms, submission and review dates, who submitted the data, and who received the data are listed in "History." Both state and EPA staff may also leave comments in "History." The "History" will automatically update when the data status changes.

Comments may be added in two ways. When data is submitted, a pop-up box allows the user to submit a comment and identify who should receive email notifications. The "History" tab also allows users to leave comments by clicking on the "Add Comment" button, as shown in Figure 16.
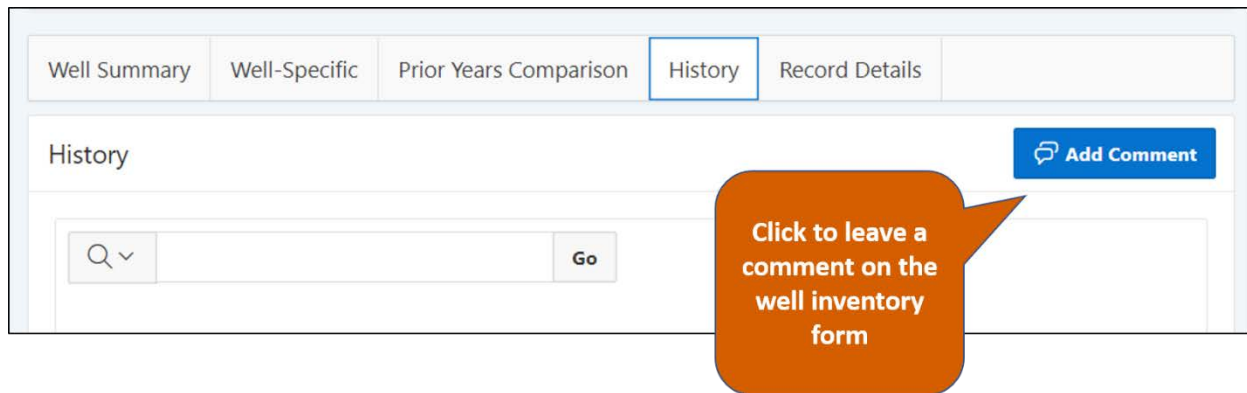
Figure 16. The History tab on the Well Inventory form allows users to leave comments. An email recipient may be listed to receive a notification of the newly created comment.

Record Details

The Record Details tab within the Well Inventory form displays the user and date the record was created and last updated as shown in Figure 17.
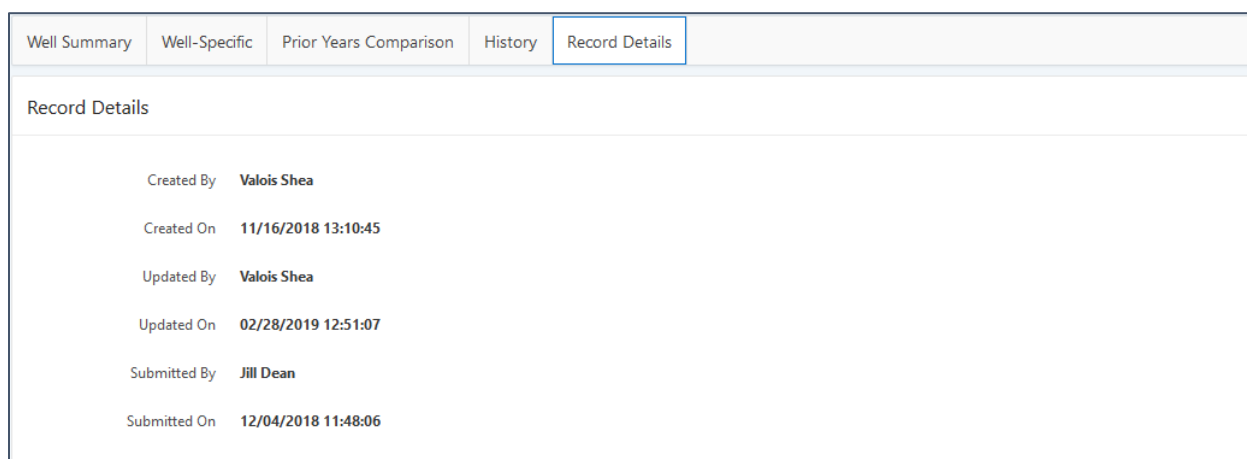
Figure 17. Record Details tab in the well inventory edit menu detailing the user, date, and time of creation or update.

16

Importing Well Inventory Using Templates

Some programs may find importing data into the application is more efficient than manually entering data using the forms. For example, EPA Regions may directly implement several state and tribal UIC programs. Importing data for multiple programs at one time would be much quicker than manually entering forms for multiple programs. Once data is imported, the Application populates the well inventory forms for all programs whose data were included in the import.

Importing data requires specific formatting and a predictable order of data fields so the Application will populate the webforms correctly. The specific field order and formatting requirements may be found in templates that EPA provides to users through the launch page of the Application or from the EPA website.[1] The templates are MS Excel files that illustrate the correct field order and format to use for successful data import. Two inventory templates allow users to upload well summary inventory or well-specific inventory.

Templates
The template files contain multiple worksheets to guide users in the process of creating their data file for import, as shown in Figure 18.

- The "READ ME" worksheet introduces the user to the template and provides instruction on how to use it.
- The Template worksheet is the second worksheet on the navigation bar, which provides the user with the field headings and order of fields that the UIC Data Application requires for successful import.
- The "Field Key" worksheet provides an explanation of the field headings found in the template worksheet. The field key tables are also found in Template Data Dictionary.
- The "Example" worksheet provides an example of the Template worksheet populated with data. Comment boxes identify tips for formatting the data for successful import.
- The sheets, "Primacy Agency Codes" and "Tribe Codes," list the four-character primacy agency code or the Bureau of Indian Affairs codes assigned to each federally recognized tribe. The primacy agency codes are the same as those used by the National UIC Database.
- The "Well Types & Classes" worksheet found only in the well-specific inventory template contains a list of well types, well type codes accepted by the UIC Data Application, and the corresponding well summary class codes and injection well types reported to Congress in 1987.

Programs should use the templates as a guide for formatting the data extracted from the program databases. Users should not copy and paste data into the original template files and then try to import the file. Programs that wish to copy and paste data into the template should copy Row 5 of the worksheet with "Template" in the title (e.g. Summary Inventory Template) into a new Excel spreadsheet or .csv and then data may be copied and pasted below the headings in the new file. The file for import should contain only one sheet for a successful import and all field formats within Excel should be set to text. (If the import file is a .csv, all fields are automatically converted to text.)

---

[1] Information on user support materials is found in section *Layout of the Application*.

Please see sheet, "7520-1 thru 3 Example," for additional information on formatting.									
PRI_AGENCY_CODE	FedFiscalYr	FYQuarter	Region	State	Tribe	WellClass	PermitApps	IndPermitNew	IndPermitExist

◀ ▶	READ ME	**7520-1 thru 3 Template**	Field Key	7520-1 thru 3 Example	Primacy Agency Codes	Tribe Codes

Figure 18. The Template file contains the headings and the proper order that data should be found so the UIC Data Application will import the data correctly.

Import Process

Well inventory data may be imported by selecting the down arrow next to the Well Inventory module menu on the top navigation bar as shown in Figure 19. When users hover the mouse over "Import," the options for importing "Well Summary" and "Well-Specific" will appear.

The Data Load Wizard assists users in importing well inventory. A progress bar located at the top of the page, as shown in Figure 20, indicates the step of the import process and progression in the wizard.
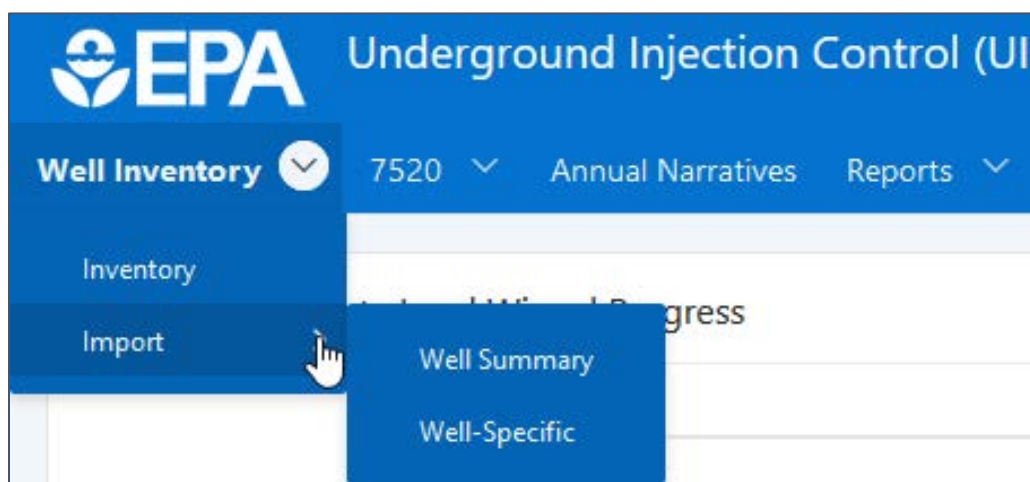
Figure 19. The well inventory import feature may be accessed from the Well Inventory menu and Import. Users may choose either well summary or well-specific inventory import.

Data Load Source

The first step in the Data Load Wizard Progress allows the user to select the data for import. The data may be imported into the application as either an Excel spreadsheet (.xlsx) or comma-separated value (.csv) file. If importing an Excel spreadsheet, all fields must be formatted as text. No additional formatting needs to occur if importing a .csv file.

Web browsers may allow users to select files for import in different ways. If using Google Chrome to access the application, the user will select "Choose File" (Figure 20). In Microsoft Edge and Internet Explorer browsers, the user will select the "Browse…" button. A pop-up window will then allow the user to navigate to the file for import. After the file is chosen for import, the user should click on the "Next" button on the right side of the window to proceed to the next step in the wizard (Figure 20).

18
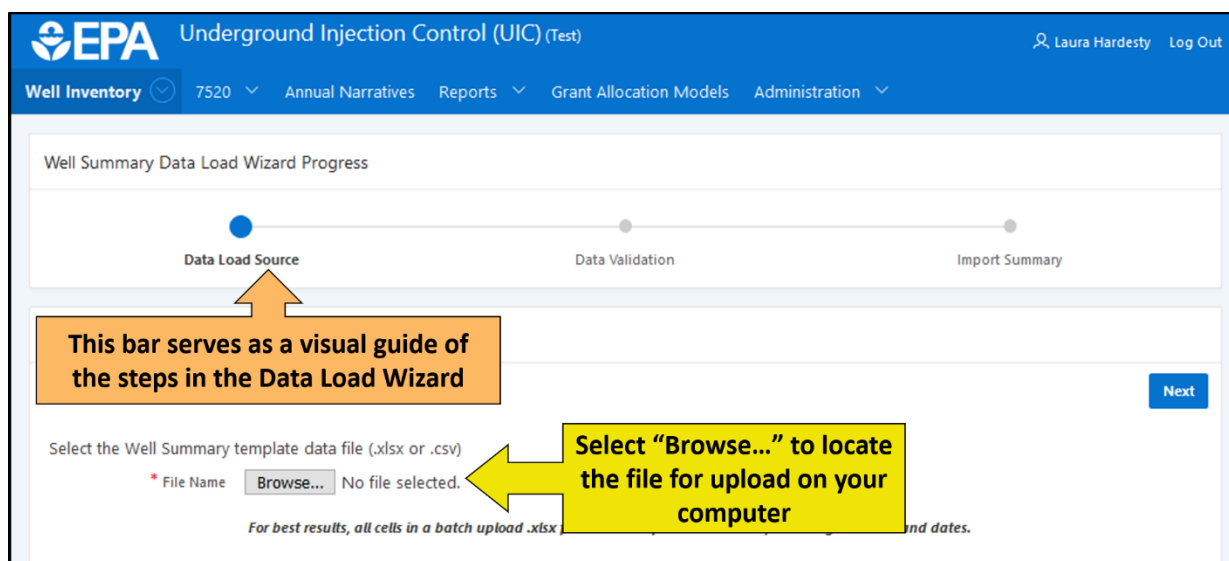
Figure 20. Users will select the file for data import in the first step of the Data Load Wizard by clicking "Choose File" or "Browse…" (depending on browser) and navigating to the file on their hard drive.

Data Validation

The second step in the "Data Load Wizard" is the "Data Validation" step. The user may perform quality control measures on the data using the search function, as shown in Figure 21, to verify values are represented appropriately after importing. The search bar may be used for broad searches of row text that match the value entered in the search bar. More focused searches of specific columns of data may also be performed using the search bar. To specify a column to search for data, the user should select the magnifying glass symbol with the down arrow on the left side of the search bar (Figure 21).

Other features in the "Data Validation" step that simplify quality control are the "Error" and "Import Status" columns. If the application finds any data that does not meet the application's business rules, such as a duplicative Well ID, the application will insert an error message in the "Error" column next to the row that need correction. If data meets the application's business rules, the "Error" column will remain blank beside the row. Users may click on the "Error" column heading and exclude blank fields using the filter if they want to focus on the error messages. The user must address all errors before the application will accept the data. Appendix C: Description of Error Messages for the Import Function provides a list of possible error messages with explanations.

Users may go back to the previous "Data Load Source" step by selecting the "Previous" button on the left above the table or cancel the import process and return to the summary page by selecting the "Cancel" button on the left above the table.

If there are no errors to be corrected and the user is satisfied with the quality of the data, the user may select the "Load Data" button to the final step in the import process. The Import Summary step of the wizard provides the user details about the data submission.

Figure 21. Users may search the data validation table to ensure data imported correctly.

Import Summary

After the data is successfully imported, the application will populate the data in individual 7520 forms. Users may click on the "View Well Inventory Records" button on the right side of the Import Summary page to go directly to the Well Inventory table view.

The data in newly imported forms will be saved with a "Draft" status. The user will need to open each draft form, verify that the application populated the form correctly, and then select the "Submit" button at the top right of the form page (Figure 10). The workflow status of the data will change from "Draft" to "Submitted."

Form 7520 Data

The 7520 module menu in the UIC Data Application lists six items: 7520-1, -2A, -2B, -3, -4, and Import, as shown in Figure 22. An option for Bulk Status Change is also available to EPA users, which will be discussed in the Regional Appendix. To view 7520 forms, click the down arrow to the right of the 7520 menu from the launch page and then click on the desired 7520 form type. The pages for each form display a table of current and past datasets for the respective 7520 form, as shown in Figure 23, with options to sort, filter, edit, and print records, similar to the Well Inventory page (Figure 8).
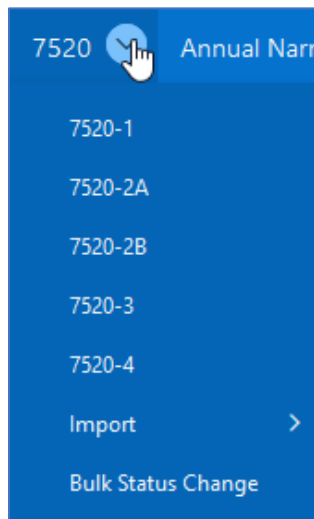
Figure 22. Specific 7520 types can be accessed by selecting "7520," then the desired form in the navigation bar.

The rows on each of the 7520 form tables have the Edit icon, ✎ , or the Locked icon, 🔒 , at the beginning of the row (Figure 23). The Edit icon indicates that the data can be changed by an authorized user by clicking on the icon. The Locked icon indicates that the data cannot be changed unless it is first unlocked by an authorized user. Each row also has a Print icon, 🖶, to print a hard copy of the desired form.

Some rows of the 7520 form tables may have additional icons, which indicate if a form has attached files or associated comments (Figure 23). The Attachment icon, 📎, indicates whether a user attached a file to the 7520 form. Attached files might include descriptions of program activities that are best written in MS Word files or .pdfs rather than in the Remarks fields on the form. Another icon that may appear beside a row in the table is the Comment icon, 💬. The Comment icon indicates whether users left comments in the History tab of a 7520 form. Both the Attachment and Comment icons quickly alert and remind users that additional information is available beyond the data reported on the 7520 form.

The data found in the Form 7520 tables may be conveniently filtered by selecting Primacy Agency or Fiscal Year from the drop-down menus. Additional sorting and filtering capabilities are available by clicking on the column headings.

Adding and Editing 7520-1 through 7520-3 Data Using Forms

The "New 7520" button on each 7520 table displays a form to enter a new 7520 dataset (Figure 23). The specific 7520 form that appears corresponds to the page the user chose to display. For example, if you

are on the 7520-1 page, the "New 7520" button will create a new 7520-1 form. If you would like to add a different 7520 form, navigate to its respective forms page on the top navigation bar.

Figure 23. View of the 7520-1 page with datasets listed in rows and options to search, filter, sort, and create a new report at the top.

After clicking the "New 7520" button, a page appears, as shown in Figure 24, that allows the user to enter the Primacy Agency Code, Fiscal Year, Quarter, Type (State or Tribal), and State/Tribe—this data is sometimes referred to as header data. Selecting the "Next" button brings the user to the 7520 data entry form where data may be entered, as shown in Figure 25.

Figure 24. The user may confirm or change the reporting period and primacy agency information for the 7520 form prior to entering the data.

The data entry form displays the primacy agency and reporting period data chosen in the previous screen (i.e., header data) at the top of the form (Figure 25). A function bar contains buttons for printing, deleting the dataset, exiting the dataset, or submitting the data. The 7520 entry forms have similar tabs as the well inventory forms. The tabs display the data entry form, allow users to attach files, indicate the review workflow process and comments, and detail the record submission and any updates.

Figure 25. The 7520 data entry form allows users to add or edit data.

The "Detail" tab shows the data entry form that allows users to manually type in their 7520 data. The form is similar to the hardcopy Form 7520s. The data entry forms for the 7520 data only show columns for which the programs have primacy. For example, a program authorized only to implement Class II wells will only see columns for Class II on their 7520 data entry forms.

The fields on the 7520 data entry forms are automatically populated with zero. To edit the form, users should click on the "Edit" button at the top of the form. Users may then click on the cell to add data and type in the value. Data may be saved by clicking the "Save" button at the top of the form and then "Submit" button at the top of the page, or saving the data and clicking "Exit" at the top of the page if the users wishes to submit at a later time.

Users may add remarks in the Remarks/Ad Hoc Report field at the bottom of the "Detail" page. Forms 7520-2A, -2B, and -3 include "specify" fields for additional fields to provide comments on specific information. For example, the 7520-3, section VI.D.4. includes a "specify" field, as shown in Figure 26, for users to provide information voluntarily about the other types of fluid migration tests/evaluations conducted by the program. When the user clicks on the icon, 💬, beside "Specify" in the field name, a pop-up window appears allowing the user to add comments. The Specify and Remark fields found on the data entry forms allow users to enter up to 255 characters of text. If users need to provide more than 255

characters to explain data, the application allows users to attach files such as Word documents (.docx) or Adobe portable document format files (.pdf) to the data submission.

To edit cells in an existing dataset, select the Edit button in the "Detail" tab. Once editing is enabled in the form, the user may select the cells to modify and type in the new value. Users should save the data after editing and submit the data when ready.

Figure 26. The user may add additional explanations of data by using the Specify fields found in 7520-2A, -2B, and -3.

Attaching Files to the 7520 Forms

The "Attachments" tab in the 7520 data entry forms, shown in Figure 27, allows users to attach files associated with the 7520 form. The files might include cover letters, additional explanatory materials, or the annual reports submitted by primacy programs to EPA. To attach a file, select "Attach File(s)" on the right and a window will pop up asking the user to navigate to the file to be attached. The pop-up window may show a "Browse" button or a "Choose Files" button, depending on the internet browser. If the user needs to delete an attachment, select the icon ⊖ or 🗑 next to the file name of the attachment to be deleted.

Figure 27. The "Attachments" tab can be used to provide reference documents to be used in filling out 7520 records in the UIC Application.

Adding and Editing 7520-4 Data Using Forms

The Form 7520-4, or the Quarterly Exceptions list, allows EPA to track injection wells reported in significant noncompliance for two or more consecutive quarters without being addressed with a formal enforcement action or being returned to compliance. Reporting on the 7520-4 is cumulative over the year, and wells should be removed only after reporting the date the well is returned to compliance. The Form 7520-4 should be reported even if there are no wells with significant noncompliance violations that have not been addressed for two or more consecutive quarters.

24

The 7520-4 data table is accessible from the 7520 drop-down menu (Figure 23). The "New 7520-4" button, as shown in Figure 28, on the upper right side of the data table will create a new 7520-4 form for the user to enter data.
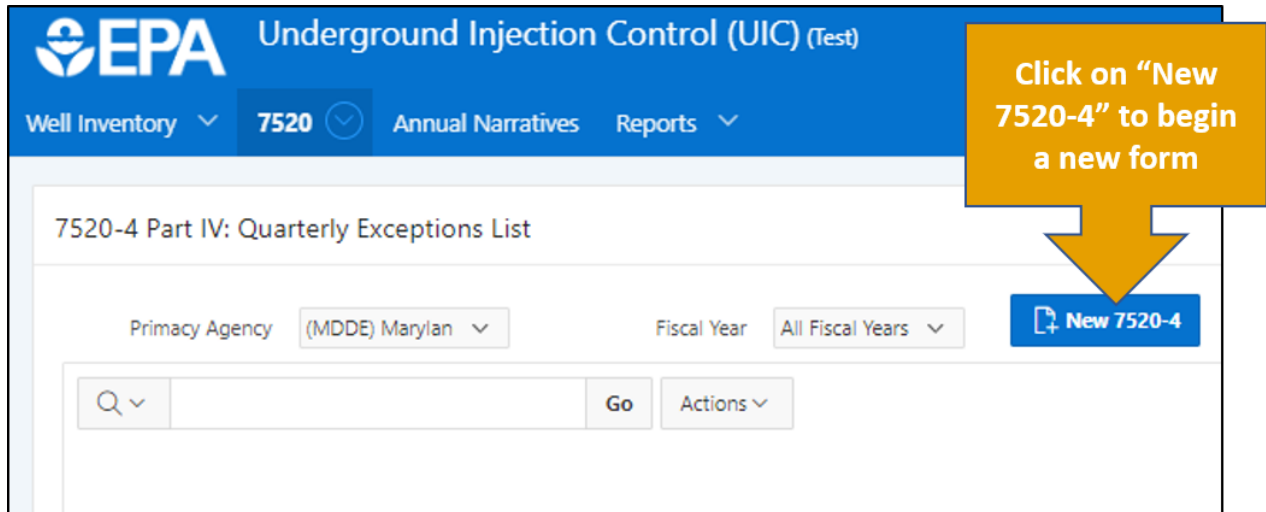
Figure 28. The "New 7520-4" button on the 7520-4 data table allows the user to create a new 7520-4 form.

Similar in process to entering data into the forms for the 7520-1 through 7520-3 (Figure 24), the user will confirm the fiscal year, fiscal year quarter, primacy agency, and program type before entering data into the 7520-4 form, as shown in Figure 29. Clicking the "Next" button will open the 7520-4 data entry form.

Figure 29. Users must confirm the fiscal year, fiscal year quarter, and primacy agency details before entering data into the 7520-4 form.

Sometimes, users realize after moving to the 7520-4 data entry form that the incorrect fiscal year or quarter was entered in the first step of the new form creation. The fiscal year and quarter may still be edited in the data entry form, shown in Figure 30. The user may use the drop-down menus for fiscal year

or quarter to correct the data. Users must click the "Save" button under the fiscal year drop-down menu for the Application to save the changes.

Because the Form 7520-4 is submitted to EPA even if there are no wells to report, the data entry form has two buttons that users could select to create a new form. Users should select the "No Wells to Report" button if there are no wells that meet the criteria to be included on the form. Users should select "Add 7520-4 Well" if the program needs to report wells.

Figure 30. Users submit a 7520-4 form whether the program has wells that meet the form criteria or not. Two buttons allow users to choose the data to submit to EPA: "No Wells to Report," or "Add 7520-4 Well."

If the user selects "Add 7520-4 Well" in the form, a pop-up window appears and the user may enter data into the form fields, as shown in Figure 31. Field names with a red asterisk are required fields in the form. The street address is the location of the well owner or operator rather than the well location.

History

All the 7520 forms include a "History" tab, which shows the details of submission, workflow status, and allows users and reviewers to add comments to the dataset. To add a new comment, select the "Add Comment" button, as shown in Figure 32. Users have the option of specifying email addresses to send notification that a comment was made.

Figure 31. After selecting "Add 7520-4 Well" from the 7520-4 form, a pop-up window allows users to enter data on the well.
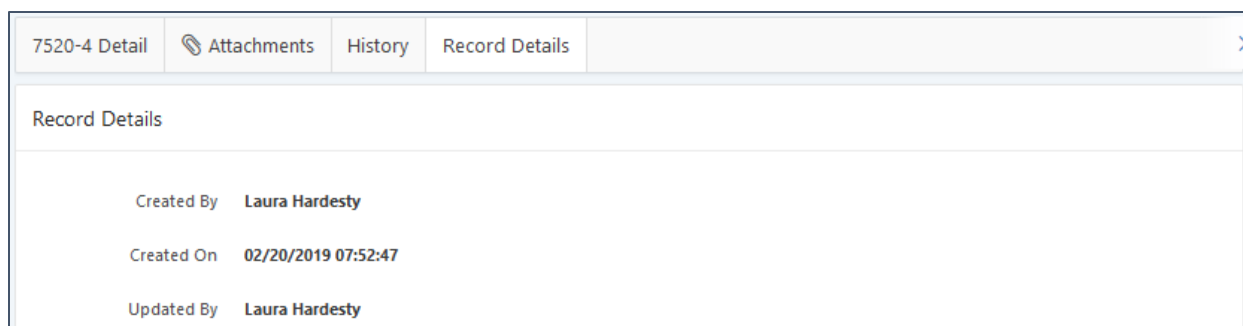
Figure 32. The "Record History" tab can be used to improve productivity by adding comments on 7520 records as they are filled out and submitted.

Record Details

The "Record Details" tab displays the names of people that have created or updated the 7520 forms and a timestamp of when the content was changed, as shown in Figure 33.

Figure 33. The "Record Details" tab shows usernames and timestamps of users that have created/edited content.

Importing 7520 Data Using Templates

The Form 7520 data may be imported into the UIC Data Application instead of manually entering the data into the data entry forms. Importing data may be especially efficient for EPA Regions that directly implement multiple programs for states and tribes—one file of data for all programs may be uploaded into the application instead of manually entering multiple 7520 forms for each program.

Importing data requires specific formatting and a predictable order of data fields so the Application correctly populates the forms with the data. Users may find the required formatting and field order needed by the Application in spreadsheets referred to as templates. The templates are available to programs on the launch page of the application and from the EPA website at https://www.epa.gov/uic/resources-transition-new-uic-data-reporting-process. Two 7520 templates allow users to upload the 7520-1 through -3 or the 7520-4.

The template files contain multiple worksheets to guide users in the process of creating their data file for import, as shown in Figure 34.

- The "READ ME" worksheet introduces the user to the template and provides instruction on how to use it.
- The Template worksheet is the second worksheet on the navigation bar, which provides the user with the field headings and order of fields that the UIC Data Application requires for successful import.
- The "Field Key" worksheet provides an explanation of the field headings found in the template worksheet.
- The Example worksheet provides an example of the Template worksheet populated with data. Comment boxes identify tips for formatting the data for successful import.
- The sheets, "Primacy Agency Codes" and "Tribe Codes," are reference information for staff in programs who may not know their four-character primacy agency code or the Bureau of Indian Affairs codes assigned to each federally recognized tribe. The primacy agency codes are the same as those used by the National UIC Database.

Figure 34. The template files inform users how to format their data and the order the data should be for a successful import into the UIC Data Application.

Programs should use the templates as a guide for formatting the data extracted from their program databases. DO NOT copy and paste data into the original template files. Programs that wish to copy and paste data into the template should copy the template headings (Row 5 in the 7520-4 template; Row 6 in the 7520-1 to -3 template) of the Template worksheet into a new Excel spreadsheet or .csv and then data may be copied and pasted below the headings in the new file. The file for import should contain only one sheet for a successful import, and all field formats within the sheet should be set to text. (If the import file is a .csv, all fields are automatically converted to text.)

The 7520 data import feature is found by selecting the down arrow next to the "7520" menu on the top navigation bar. Hover over "Import," and options for importing 7520 (1,2A,2B,3) and 7520-4 will appear as shown in Figure 35. The 7520 (1,2A,2B,3) or 7520-4 Data Load Wizard guides the user through the data import process. The top of the page shows a progress bar indicating the three steps of the import process, as shown in Figure 36.
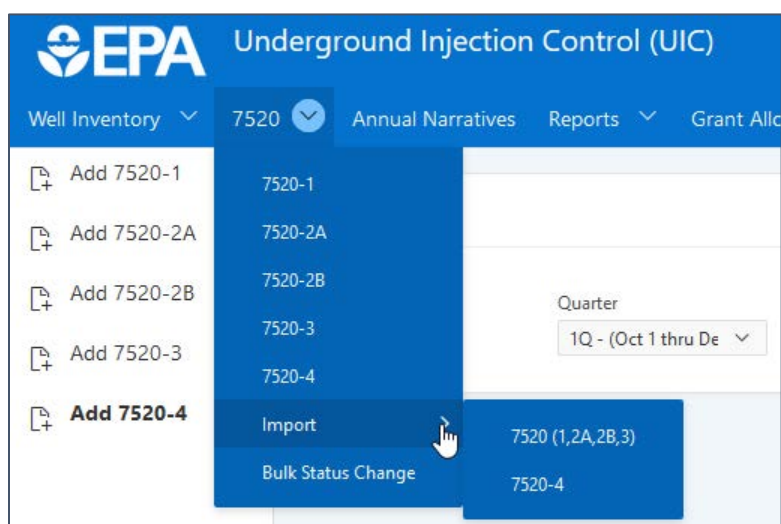
Figure 35. The 7520 Import location in navigation bar

Data Load Source

The first step in the Data Load Wizard is "Data Load Source." The user may select the data to import by clicking on "Choose File" if using Google Chrome, as shown in Figure 36, or "Browse…" next to the "File

29

Name" field in Internet Explorer. Supported file formats include .csv and .xlsx. A window will appear allowing the user to find the file on their computer, select it, and then click "Open." The user should select the "Next" button on the right side of the window after choosing their data file to proceed to the next step in the wizard.

Figure 36. A progress bar at the top of the page indicates the step of the data import process. During the "Data Load Source" step, users choose the file to import into the Application.

Data Validation

The second step in the "Data Load Wizard" is the "Data Validation" step. Users are able to examine the imported data with a search function to verify that the Application correctly interpreted the template file. Two new columns of data are included on the left side of the data table during the "Data Validation" step, "Import Status" and "Errors." The columns alert users to any issues with the data that may need to be resolved.

Users can search the imported table in a few ways, as shown in Figure 37. The search bar can be used to find data as well as sorting data by column heading. The search bar performs a broad search across all cells in the data table for text entered into the bar. To specify a particular column to search for data, select the magnifying glass symbol with the down arrow on the left side of the search bar and then select the column that you wish to focus the search followed by typing the text to search for in the search bar. Column headings may be filtered by clicking on the heading and selecting the data of interest. Some column headings may be sorted ascending or descending. The search, sort, and filter tools are especially helpful when a user receives error messages from the Application because the user can narrow the table to assess the problematic data.
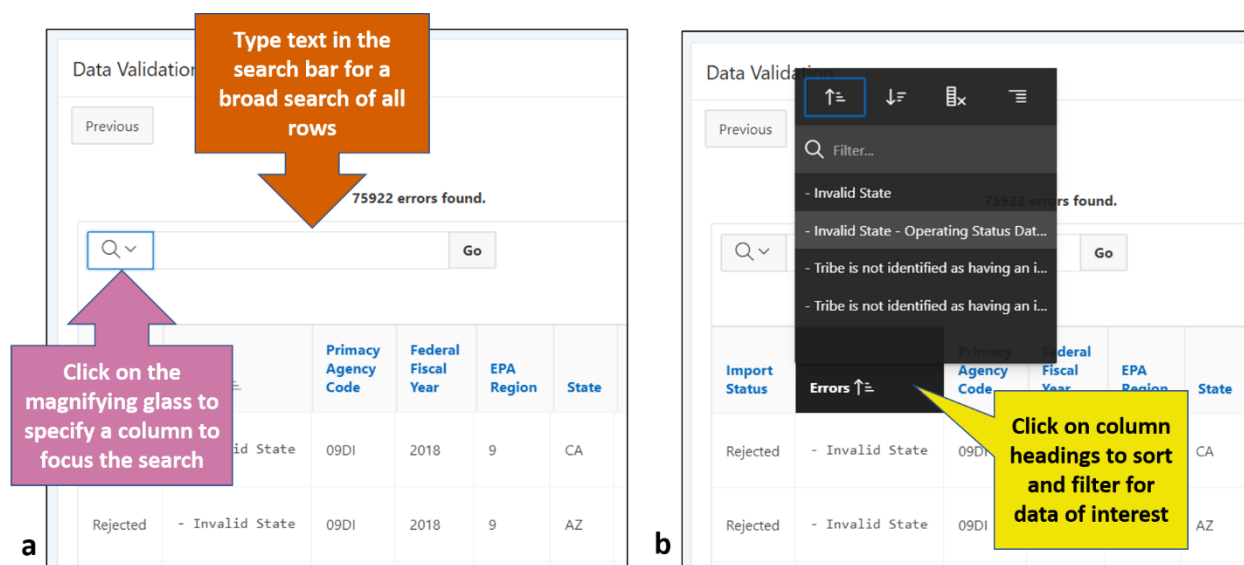
Figure 37. Users may use the search bar (pictured in a) and sort and filter column headings (pictured in b) to assist in data validation.

If the Application identifies errors in the dataset, the user must address the errors in the original data before attempting to import the data again. Appendix C: Description of Error Messages for the Import Function provides a list of possible error messages with explanations.

Users may navigate back to the "Data Load Source" step to import the data by selecting the "Previous" button or cancel the import process by selecting the "Cancel" button. Both "Previous" and "Cancel" are located on the left side of the page, above the table.

Once the user is satisfied with the data validation, the user should select "Load Data" to proceed to the final step in the "Data Load Wizard" and finalize the data import. The Application will populate the 7520 forms appropriate to the type of template imported. The forms will be in "Draft" status until the user opens each form and clicks the "Submit" button.

Annual Narratives

The Annual Narratives module can be accessed by selecting the "Annual Narratives" link in the navigation bar at the top of the Application, as shown in Figure 38. The module allows primacy program users to upload the annual narrative report, which outlines UIC program activity throughout a specific year. The narratives will be available for EPA Regional staff to download. Emailing the narrative to EPA Regions is unnecessary if the narrative is uploaded to the Application. Both the primacy program user and the EPA Region will be notified when a narrative is uploaded.
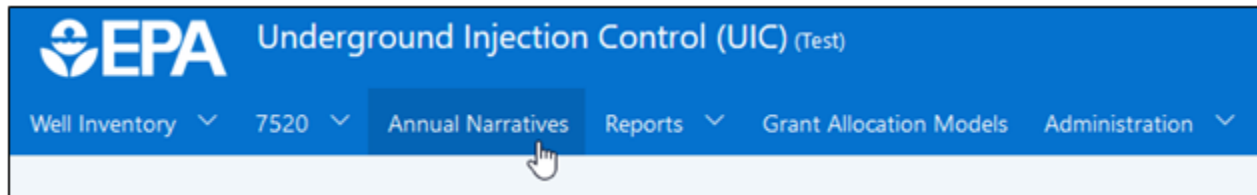
Figure 38.The Annual Narratives module is found in the navigation bar.

The Annual Narratives module features a data table of the annual narratives that have been uploaded by primacy programs. Once a narrative file is attached to an Annual Narrative entry, users can open or download a narrative file by selecting the file name in the Annual Narrative data table or within the edit menu of a specific Annual Narrative.

A suite of features is available that allow users to sort, search, and filter data in the Annual Narratives data table. The tools may be accessed in multiple ways, as shown in Figure 39 and Figure 40. Two drop-down menus for fiscal year and primacy agency are located at the top of the page after the user selects the type of data to download (Figure 39). The search bar allows a keyword search of the entire data table (Figure 39). The "Actions" button includes a menu of tools (Figure 40). Finally, each column heading includes a column-specific list of tools (Figure 40).

Figure 39. Users may search, sort and filter the Annual Narrative data in several ways.

Figure 40. The "Actions" button provides a menu of customization options (pictured in a). A menu of column-specific customization tools is also available to users sort and filter within a column of data (pictured in b).

Adding a New Annual Narrative

To create a new annual narrative, select the "New Annual Narrative" button (Figure 39). A pop-up window will appear that allows the user to enter the header values—fiscal year, quarter, primacy agency, state or tribe—and upload the file containing the narrative, as shown in Figure 41. Depending on the header values selected, the last item "State" or "Tribe Name (BIA Code)" will dynamically change to only provide options that fit the selected Primacy Agency Code and Program Type. If selecting a state, for example, a drop-down menu will appear with state names. If the user selects a tribe, a look-up menu will appear allowing the user to select an appropriate tribe. After choosing the header values, users may click on the "Choose File" or "Browse…" button, depending on the web browser, and upload the narrative file. Users should click "Save" at the top right corner of the Annual Narrative menu to save the entry in the Application. If the narrative is ready to be submitted to the EPA Region, the user should click "Submit to EPA Region." Once the narrative is submitted to the Region, the Application will send an email to the submitter and the Region notifying them the narrative is ready for review.

The Application prevents the submitting program from editing narrative entries that are submitted to the EPA Region. If edits are needed after submission, the program will need to request the Region return the narrative entry back to draft status. Once the new file is added to the entry, the program should submit the entry back to the Region.

Users have the option to save the Annual Narrative entry without attaching a file or submitting the entry to the EPA Region. The narrative file may be uploaded to the entry later by selecting the edit icon, 📝,

to the left of the appropriate row in the Annual Narrative data table (Figure 39). The Narrative entry should be submitted to the Region with the file attached.

Figure 41. The narrative document can be uploaded by selecting the "Choose File" or "Browse..." button in the "Narrative File" section of the Annual Narrative window.

Editing or Deleting an Existing Narrative File

The Application allows only one narrative to be stored for a given fiscal year and quarter to prevent version control problems. If the narrative entry remains in draft status, users may revise their narrative and upload the newer version to the same entry, which will replace the narrative already attached to the entry. If the narrative is submitted to the Region, the submitter must request the Region return the entry to draft prior to editing or deleting the entry.

Uploading a revised version of the narrative is a similar process to uploading a new narrative. To replace an uploaded file with a new one, users should select the edit icon, ✏️, to the left of the Annual Narrative entry to edit. The Annual Narrative window will appear and users may click on "Choose File" or "Browse…" button, depending on the web browser, in the bottom half of the Annual Narrative window (Figure 41). Users can navigate to the revised narrative file in the web browser's file explorer window to replace the current narrative file. A comment may be typed into the comment field as well as any notes about the narrative file. The entry must be saved by the user to complete the file upload.

To delete a narrative entry, users should select the edit icon, ✏️, to the left of the entry to be deleted. The Annual Narrative window will appear and the user may click on the "Delete" button in the top right corner of the window, as shown in Figure 42. A pop-up window will request the user to confirm or

cancel the deletion. Once an Annual Narrative has been deleted, the file is permanently deleted from the Application.
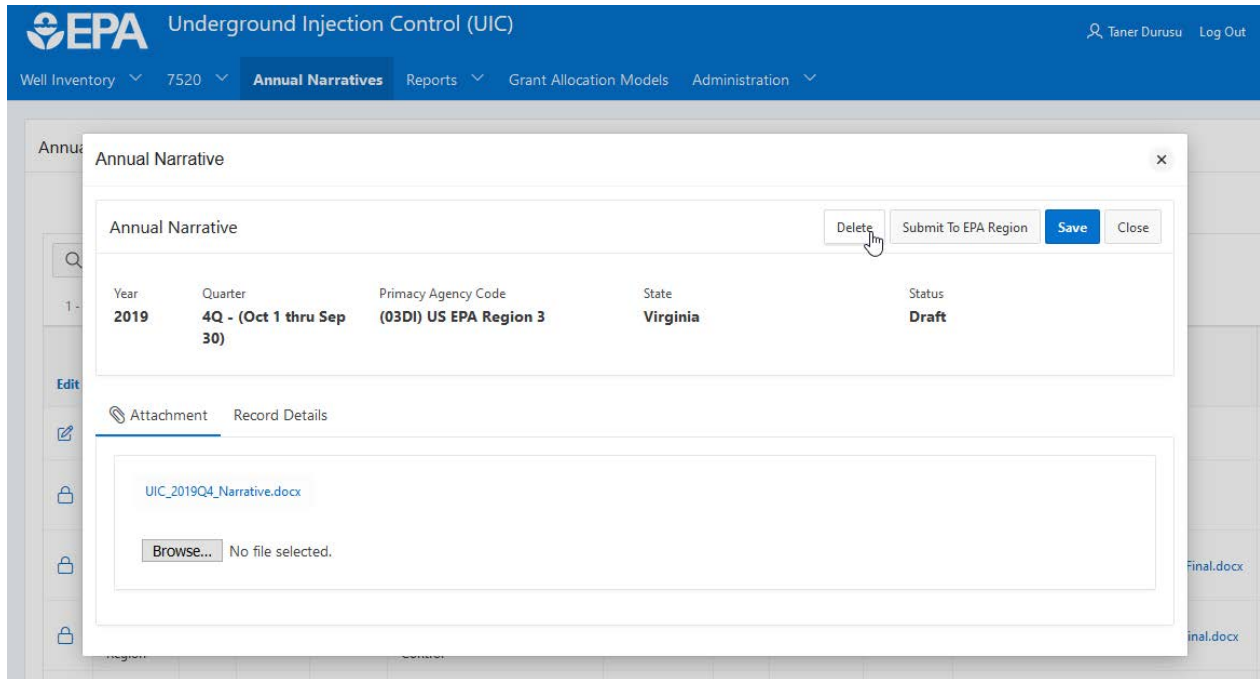
Figure 42. The delete button is in the top right corner of the Annual Narrative edit menu

Reports

The Reports module allows users to extract data from the application after it has been entered. Reports may be created in two ways from the Reports menu: "Data Downloads" or "Qlik Reports," as shown in Figure 43. Programs may download the data from select UIC programs or a national dataset into spreadsheets using the "Data Download" tool (Figure 43). Customization features in the data tables allow users to sort, filter, and edit the data included in the download. EPA also uses data visualization software called Qlik Sense to prepare figures and charts of data, which may be accessed using the Qlik Reports tool (Figure 43).
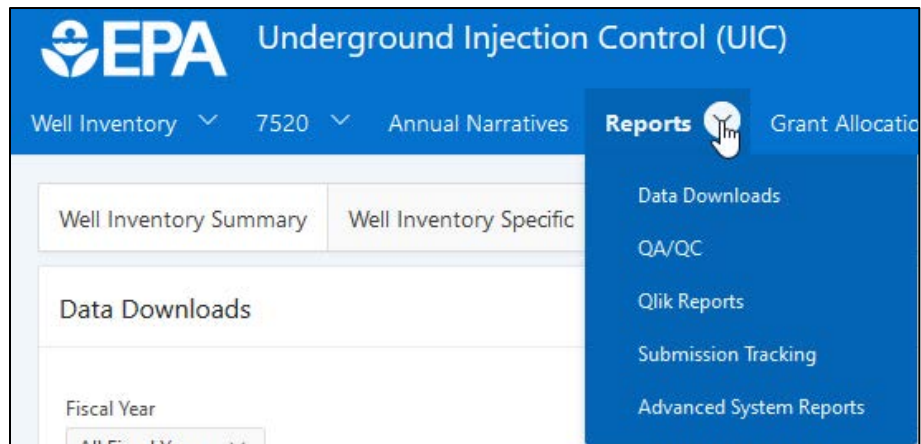
Figure 43. "Data Downloads" and "Qlik Reports" tools are located under the "Reports" drop-down menu in the navigation tab.

Data Download Tool

The Data Download tool can be used to download a Well Inventory Summary, Well Specific Inventory, or 7520 forms. Users may access the Data Download Tool by selecting the down arrow next to the "Reports" button on the top navigation bar and selecting "Data Downloads" (Figure 43). Users may select the type of data to download from the tabs at the top of the Data Downloads table—"Well Inventory Summary", "Well Inventory Specific", "7520-1 through -3", and "7520-4."

Customizing Data Views

Once the user chooses the type of data to download from the tabs at the top of the page, the user may customize the data by sorting, filtering, and editing the data that will be downloaded. The tools are especially important when a specific set of fields is needed. For example, if a user wants to download inspections data from the 7520-3 form, the data could be filtered from the "7520 (1,2A,2B,3)" table of data.

Each of the data tables in the Data Download tool has a suite of features that allow users to customize the reports for their needs, as shown in Figure 44. The tools may be accessed in multiple ways. Two drop-down menus for fiscal year and primacy agency are located at the top of the page after the user selects the type of data to download. The "Actions" button includes a menu of tools, as shown in Figure 45. The search bar allows a keyword search of the entire data table. Finally, each column heading includes a column-specific list of tools (Figure 45).
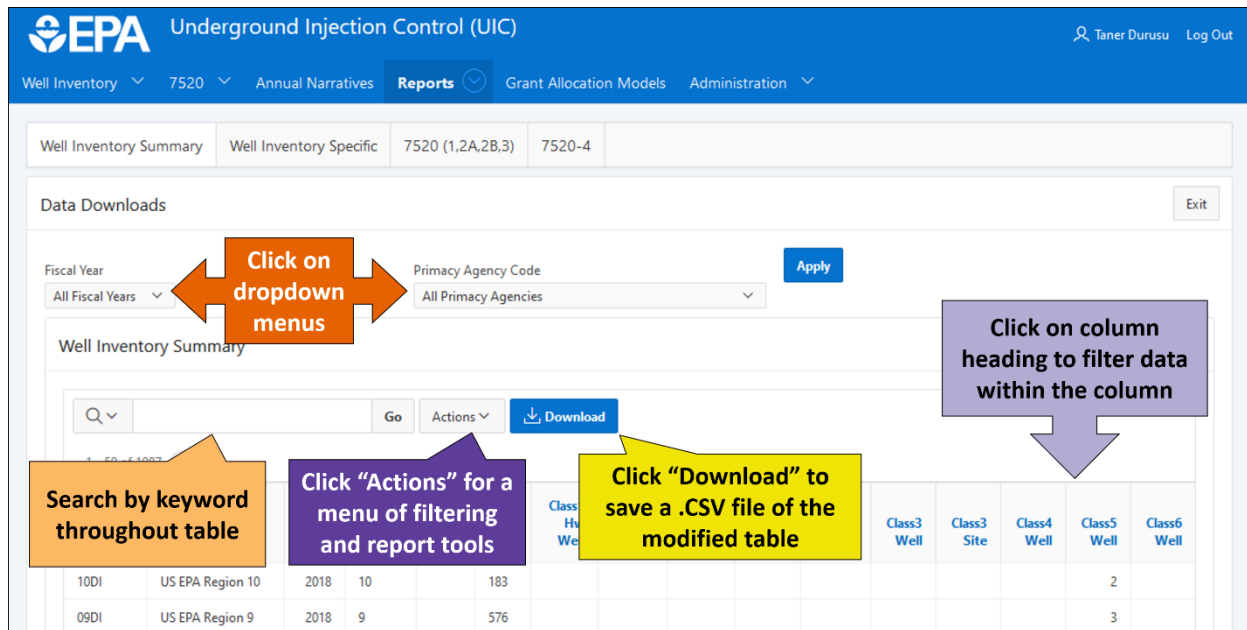
Figure 44. The Data Download tool features multiple methods of customizing datasets prior to download.
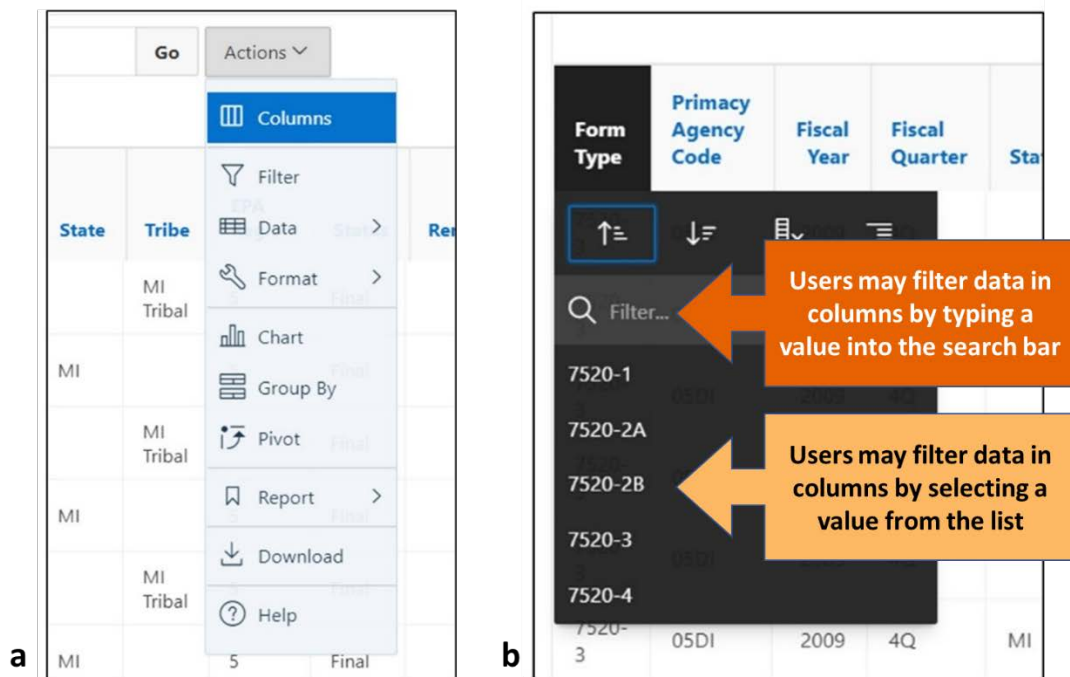
Figure 45. (a) The "Actions" button provides a menu of customization options; (b) each column heading contains a menu of column-specific customization tools

Advanced filters may be created with the tools found on the "Actions" button (Figure 45). To open the Filter tool, select the "Actions" drop-down button and select "Filter." A pop-up window allows the user

to create a filter based on a column heading or row, as shown in Figure 46. When creating a filter, the user indicates the filter type by clicking on the radio button beside "Column" or "Row." The expression field will automatically populate with choices from the chosen column or row after the filter type is selected. To finish creating the filter, the user should click on the "Apply" button.
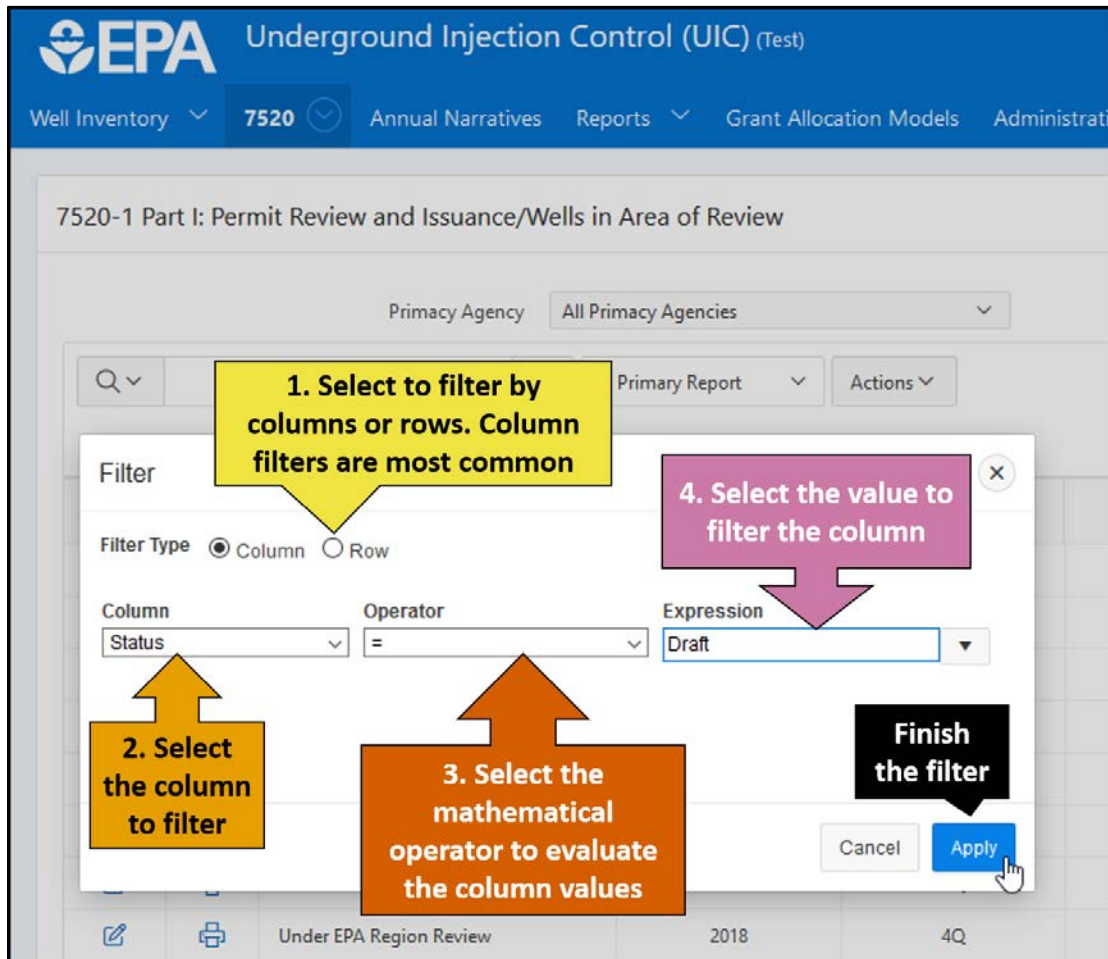
Figure 46. A pop-up window allows the user to define the filter to apply to the data after choosing Filter from the "Actions" menu.

Once a filter has been created, it will be shown above the table headers where it can be toggled on or off, as shown in Figure 47. The filter function allows a user to create multiple filters for more refined searches. For example, if a user wanted to find all records for the State of Virginia from Fiscal Year 2017 that are still in Draft status, three filters could be created:

- One filter where Column "State" = "Virginia",
- A second filter where Column "Fiscal Year" = "2017", and
- A third filter where Column "Status" = "Draft."

These filters can be toggled on and off with the check mark box to the left of the filter (Figure 47). The filters may be completely removed from the dataset by clicking on the X to the right of the filter.
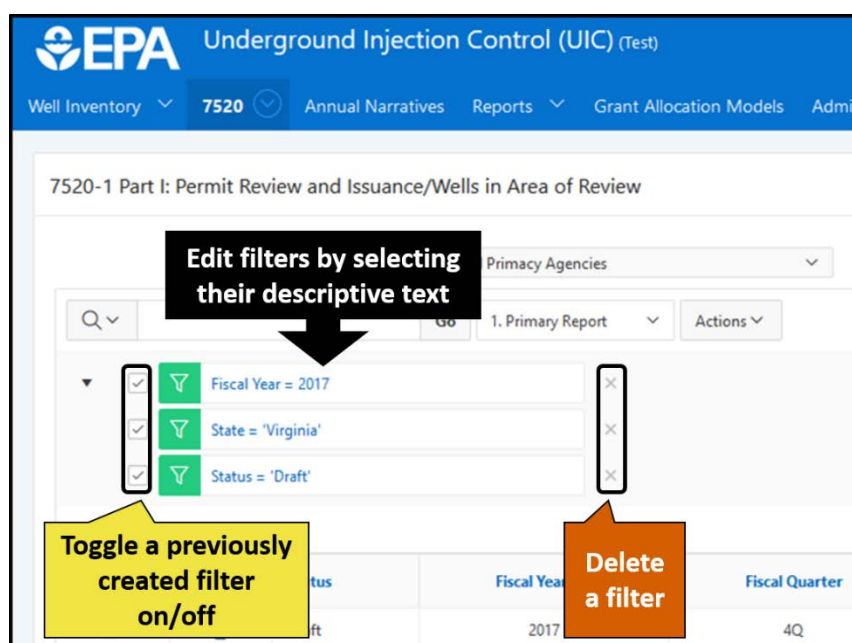
Figure 47. The specific data filters applied to the dataset are listed under the "Actions" button.

Filters on specific columns (e.g., State, Tribe, Fiscal Year) can be applied by selecting the column header to filter (Figure 45). A drop-down menu on the column heading will appear with options for search, selecting from available values, sorting alphabetically or reverse alphabetically, hiding the column, or creating a control break (Figure 45).

Saving Custom Reports

Users who create custom views of the data may save the settings for future reference in a report. Saving custom reports allows users to avoid resetting the filters each time the data is accessed. Once the desired data has been filtered or sorted, users may save a report by selecting the "Actions" drop-down menu (Figure 45), hovering over "Report," and selecting "Save Report," as shown in Figure 48. A name and description can be assigned to a report by selecting "Apply."

To access saved reports, users may select the down arrow between the search bar and the "Actions" bar, as shown in Figure 49. Saved reports are private and will not be seen by other users. Any sort or filter tools used, charts rendered, or pivots created for a saved report will remain and can be accessed later by the user who created them.
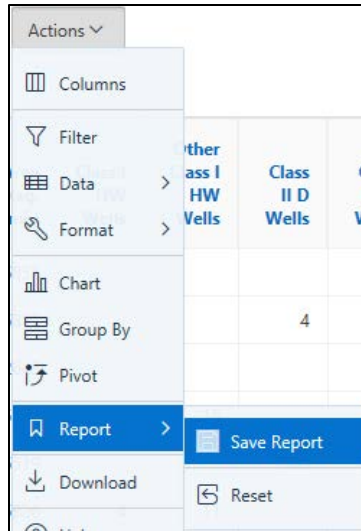
Figure 48. Users may save custom reports from the Actions menu by choosing "Report" and "Save Report."
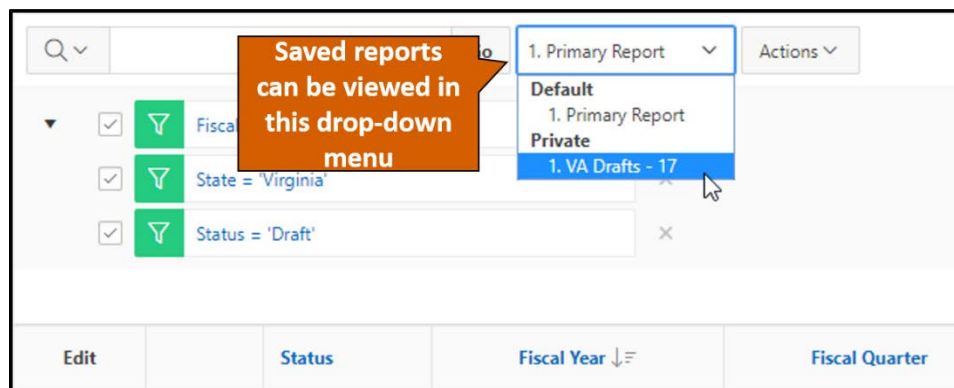
Figure 49. Saved reports may be accessed using the down arrow between the search bar and the "Actions" bar.

To create additional new reports, switch to the "Primary Report" view to access the original, unfiltered data (Figure 49). To edit a report, select the report you wish to edit through the drop-down menu (Figure 49), and make any changes. Changes to the report name and description can be made by selecting the report name.

Qlik Reports

The EPA is using Qlik Sense data visualization software to create interactive reports with figures and tables. The data submitted to the UIC Data Application will populate the interactive reports to decrease the time the UIC program needs to analyze data and increase the ability of the program to use data to support decisions. Please note, however, that the Qlik Reports only refresh from the data submitted to the UIC Data Application once every 24 hours (overnight). Users may access the Qlik Reports by selecting the down arrow beside the Reports menu and choosing "Qlik Reports" from the drop-down menu (Figure 43).

The Qlik reports created for the UIC Data Application are based on the same subjects found in the inventory and Form 7520s. Users may click on any of the reports on various topics to see figures and tables from the data submitted to the Application, as shown in Figure 50.

The Qlik reports offer users an efficient and timely way to understand the data. Each report typically displays two figures and two tables of data that complement the figures, as shown in Figure 51. The reports have a series of filters across the top so that users can customize the data in the tables and figures (Figure 51). Changes to the filters are applied to all tables and figures in the report immediately. Data will be found in the Qlik reports 24 hours after it is entered into the Application.
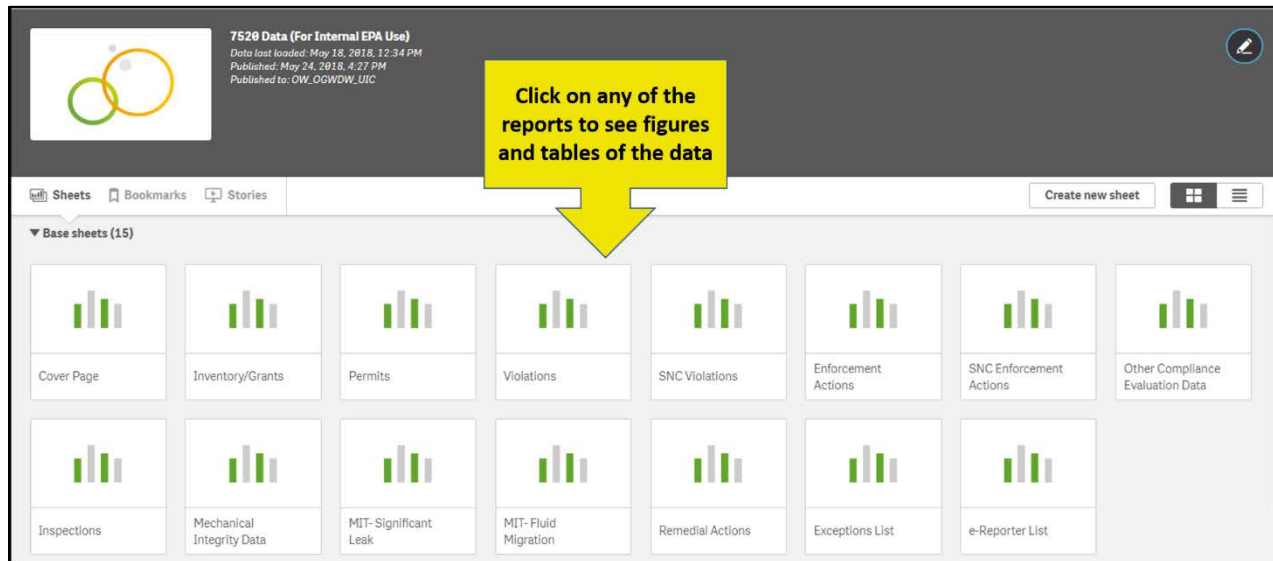
Figure 50. Users may choose reports by subject matter to see figures and tables from the data submitted to the Application.
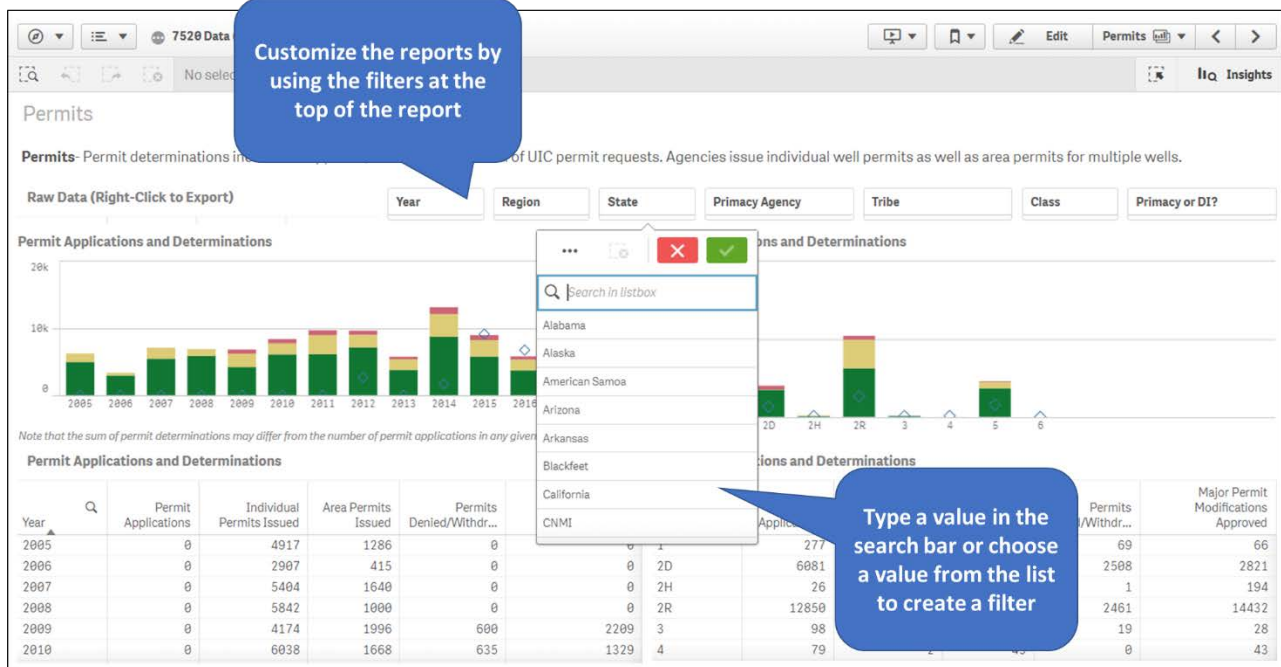
Figure 51. Users may customize the Qlik reports by using the filters at the top of the report.

This page is intentionally blank

Appendix A: Primacy Agency and Tribal Codes

Table A.1. Primacy agency codes found in the UIC Data Application and the associated primacy agency name.

PRIMACY AGENCY CODE	PRIMACY AGENCY NAME
01DI	US EPA Region 1
02DI	US EPA Region 2
03DI	US EPA Region 3
04DI	US EPA Region 4
05DI	US EPA Region 5
06DI	US EPA Region 6
07DI	US EPA Region 7
08DI	US EPA Region 8
09DI	US EPA Region 9
10DI	US EPA Region 10
AKOG	Alaska Oil and Gas Conservation Commission
ALEM	Alabama Dept. of Environmental Management
ALOG	State Oil and Gas Board of Alabama
AREQ	Arkansas Department of Environmental Quality
AROG	Arkansas Oil and Gas Commission
CAOC	California Department of Conservation; Division of Oil, Gas and Geothermal Resources
COOG	Colorado Oil and Gas Conservation Commission
CTEP	Connecticut Department of Environmental Protection.
DENR	Delaware Department of Natural Resources and Environmental Control
FLEP	Florida Department of Environmental Protection
FPT8	Fort Peck Tribes
GANR	Georgia Department of Natural Resources
GUEA	Guam Environmental Protection Agency
IDWR	Idaho Department of Water Resources
ILEA	Illinois Environmental Agency
ILNR	Illinois Department of Natural Resources
INNR	Indiana Department of Natural Resources/Oil and Gas Division
KSCC	Kansas Corporation Commission-Conservation Division
KSHE	Kansas Department of Health and Environment
KYNR	Kentucky Department of Natural Resources
LANR	Louisiana Department of Natural Resources
MAEP	Massachusetts Department of Environmental Protection
MDDE	Maryland Department of the Environment
MEEP	Maine Department of Environmental Protection
MONR	Missouri Department of Natural Resources
MPEQ	Commonwealth of Northern Mariana Islands, Division of Environmental Quality

Table A.1. Primacy agency codes found in the UIC Data Application and the associated primacy agency name.

PRIMACY AGENCY CODE	PRIMACY AGENCY NAME
MSEQ	Mississippi Department of Environmental Quality
MSOG	Mississippi Oil and Gas Board
MTOG	Montana Board of Oil and Gas Conservation
NCEN	North Carolina Dept. of Environment and Natural Resources
NDOG	North Dakota Industrial Commission - Oil and Gas Division
NDEQ	North Dakota Department of Environmental Quality
NEEQ	Nebraska Department of Environmental Quality
NEOG	Nebraska Oil and Gas Conservation Commission
NHES	New Hampshire Department of Environmental Services
NJEP	New Jersey Dept. of Environmental Protection
NMED	New Mexico Environment Department
NMNR	New Mexico Energy, Minerals, and Natural Resources - Oil Conservation Division
NNUI	Navajo Nation Environmental Protection Agency
NVEP	Nevada Division of Environmental Protection
OHEA	Ohio Environmental Agency
OHNR	Ohio Department of Natural Resources
OKCC	Oklahoma Corporation Commission
OKEQ	Oklahoma Department of Environmental Quality
OREQ	Oregon Department of Environmental Quality
PREQ	Puerto Rico Environmental Quality Board of Water Quality
RIEM	Rhode Island Department of Environmental Management
SCHE	South Carolina Department of Health and Environmental Control
SDEN	South Dakota Department of Environmental and Natural Resources
TNEC	Tennessee Department of Environment and Conservation
TXEQ	Texas Commission on Environmental Quality
TXRC	Texas Railroad Commission
UTEQ	Utah Department of Environmental Quality
UTNR	Utah Department of Natural Resources
VTEC	Vermont Department of Environmental Conservation
WADE	Washington Department of Ecology
WINR	Wisconsin Department of Natural Resources
WVEP	West Virginia Division of Environmental Protection
WYEQ	Wyoming Department of Environmental Quality
WYOG	Wyoming Oil and Gas Conservation Commission

Table A.2. Bureau of Indian Affairs code and EPA Tribal IDs with associated tribe names

BUREAU OF INDIAN AFFAIRS CODE	TRIBE NAME	PRIMACY AGENCY CODE	STATE	EPA TRIBAL ID
001	Eastern Band of Cherokee Indians	04DI	NC	100000076
006	Onondaga Nation	02DI	NY	100000184
007	Saint Regis Mohawk Tribe	02DI	NY	100000251
008	Tonawanda Band of Seneca	02DI	NY	100000303
009	Tuscarora Nation	02DI	NY	100000312
011	Oneida Nation of New York	02DI	NY	100000182
012	Seneca Nation of New York	02DI	NY	100000267
013	Cayuga Nation	02DI	NY	100000034
014	Passamaquoddy Tribe of Maine	01DI	ME	100000195
016	Passamaquoddy Tribe of Maine (Indian Township)	01DI	ME	100000569
017	Passamaquoddy Tribe of Maine (Pleasant Point)	01DI	ME	100000570
018	Penobscot Nation	01DI	ME	100000199
019	Houlton Band of Maliseet Indians	01DI	ME	100000106
020	Mashantucket Pequot Indian Tribe	01DI	CT	100000151
021	Seminole Tribe of Florida	04DI	FL	100000266
026	Miccosukee Tribe of Indians	04DI	FL	100000159
027	Narragansett Indian Tribe	01DI	RI	100000170
028	Poarch Band of Creeks	04DI	AL	100000204
030	Wampanoag Tribe of Gay Head (Aquinnah)	01DI	MA	100000322
031	Aroostook Band of Micmacs	01DI	ME	100000009
032	Catawba Indian Nation (aka Catawba Tribe of South Carolina)	04DI	SC	100000033
033	Mohegan Indian Tribe of Connecticut	01DI	CT	100000165
034	Jena Band of Choctaw Indians	06DI	LA	100000116
101	Confederated Tribes of the Colville Reservation	10DI	WA	100000055
102	Spokane Tribe of the Spokane Reservation	10DI	WA	100000287
103	Kalispel Indian Community of the Kalispel Reservation	10DI	WA	100000119
105	Confederated Tribes of the Chehalis Reservation	10DI	WA	100000054
106	Hoh Indian Tribe	10DI	WA	100000102
107	Lummi Tribe of the Lummi Reservation	10DI	WA	100000146
108	Makah Indian Tribe of the Makah Indian Reservation	10DI	WA	100000148
109	Muckleshoot Indian Tribe	10DI	WA	100000168
110	Nisqually Indian Tribe	10DI	WA	100000173
111	Nooksack Indian Tribe	10DI	WA	100000174
113	Port Gamble S'Klallam Tribe	10DI	WA	100000208
114	Suquamish Indian Tribe of the Port Madison Reservation	10DI	WA	100000293

Table A.2. Bureau of Indian Affairs code and EPA Tribal IDs with associated tribe names

BUREAU OF INDIAN AFFAIRS CODE	TRIBE NAME	PRIMACY AGENCY CODE	STATE	EPA TRIBAL ID
115	Puyallup Tribe of the Puyallup Reservation	10DI	WA	100000228
116	Quileute Tribe of the Quileute Reservation	10DI	WA	100000233
117	Quinault Indian Nation	10DI	WA	100000234
118	Shoalwater Bay Indian Tribe of the Shoalwater Bay Indian Reservation	10DI	WA	100000274
119	Sauk-Suiattle Indian Tribe	10DI	WA	100000262
120	Skokomish Indian Tribe	10DI	WA	100000279
121	Squaxin Island Tribe of the Squaxin Island Reservation	10DI	WA	100000288
122	Swinomish Indian Tribal Community	10DI	WA	100000295
123	Tulalip Tribes of Washington	10DI	WA	100000308
124	Confederated Tribes and Bands of the Yakama Nation	10DI	WA	100000062
125	Lower Elwha Tribal Community	10DI	WA	100000144
126	Snoqualmie Indian Tribe	10DI	WA	100000282
129	Jamestown S'Klallam Tribe	10DI	WA	100000114
131	Upper Skagit Indian Tribe	10DI	WA	100000317
132	Cowlitz Indian Tribe, Washington	10DI	WA	100000067
133	Samish Indian Tribe, Washington	10DI	WA	100000253
139	Stillaguamish Tribe of Indians of Washington	10DI	WA	100000291
140	Klamath Tribes	10DI	OR	100000130
141	Confederated Tribes of the Grand Ronde Community of Oregon	10DI	OR	100000058
142	Confederated Tribes of Siletz Indians of Oregon	10DI	OR	100000059
143	Confederated Tribes of the Umatilla Indian Reservation	10DI	OR	100000060
144	Burns Paiute Tribe	10DI	OR	100000024
145	Confederated Tribes of the Warm Springs Reservation of Oregon	10DI	OR	100000061
152	Confederated Tribes of the Coos, Lower Umpqua and Siuslaw Indians	10DI	OR	100000056
153	Cow Creek Band of Umpqua Tribe of Indians	10DI	OR	100000066
155	Coquille Indian Tribe	10DI	OR	100000063
180	Shoshone-Bannock Tribes of the Fort Hall Reservation	10DI	ID	100000276
181	Coeur D'Alene Tribe	10DI	ID	100000049
182	Nez Perce Tribe	10DI	ID	100000172
183	Kootenai Tribe of Idaho	10DI	ID	100000131
195	Northwestern Band of Shoshoni Nation	08DI	UT	100000177
199	Metlakatla Indian Community, Annette Island Reserve	10DI	AK	100000467
201	Blackfeet Tribe of the Blackfeet Indian Reservation of Montana	08DI	MT	100000020
202	Crow Tribe of Montana	08DI	MT	100000069

BUREAU OF INDIAN AFFAIRS CODE	TRIBE NAME	PRIMACY AGENCY CODE	STATE	EPA TRIBAL ID
203	Confederated Salish and Kootenai Tribes of the Flathead Reservation	08DI	MT	100000053
204	Fort Belknap Indian Community of the Fort Belknap Reservation of Montana	08DI	MT	100000086
205	Chippewa-Cree Indians of the Rocky Boy's Reservation, Montana	08DI	MT	100000043
206	Assiniboine and Sioux Tribes of the Fort Peck Indian Reservation, Montana		MT	100000010
207	Northern Cheyenne Tribe of the Northern Cheyenne Indian Reservation, Montana	08DI	MT	100000175
281	Arapaho Tribe of the Wind River Reservation, Wyoming	08DI	WY	100000008
282	Shoshone Tribe of the Wind River Reservation, Wyoming	08DI	WY	100000275
301	Three Affiliated Tribes of the Fort Berthold Reservation, North Dakota	08DI	ND	100000301
302	Standing Rock Sioux Tribe of North and South Dakota	08DI	ND	100000289
303	Spirit Lake Tribe, North Dakota	08DI	ND	100000286
304	Turtle Mountain Band of Chippewa Indians of North Dakota	08DI	MT	100000311
336	Tunica-Biloxi Indian Tribe	06DI	LA	100000309
340	Cheyenne River Sioux Tribe of the Cheyenne River Reservation, South Dakota	08DI	SD	100000040
341	Flandreau Santee Sioux Tribe of South Dakota	08DI	SD	100000084
342	Crow Creek Sioux Tribe of the Crow Creek Reservation, South Dakota	08DI	SD	100000070
343	Lower Brule Sioux Tribe of the Lower Brule Reservation, South Dakota	08DI	SD	100000143
344	Oglala Sioux Tribe	08DI	SD	100000179
345	Rosebud Sioux Tribe of the Rosebud Indian Reservation, South Dakota	08DI	SD	100000244
346	Yankton Sioux Tribe of South Dakota	08DI	SD	100000331
347	Sisseton-Wahpeton Oyate of the Lake Traverse Reservation, South Dakota	08DI	ND	100000278
380	Omaha Tribe of Nebraska	07DI	IA	100000181
381	Ponca Tribe of Nebraska	07DI	IA	100000207
382	Santee Sioux Nation, Nebraska	07DI	NE	100000261
383	Winnebago Tribe of Nebraska	07DI	NE	100000327
400	Minnesota Chippewa Tribe, Minnesota (Six component reservations: Bois Forte Band (Nett Lake); Fond du Lac Band; Grand Portage Band; Leech Lake Band; Mille Lacs Band; White Earth Band)	05DI	MN	100000161

Table A.2. Bureau of Indian Affairs code and EPA Tribal IDs with associated tribe names

BUREAU OF INDIAN AFFAIRS CODE	TRIBE NAME	PRIMACY AGENCY CODE	STATE	EPA TRIBAL ID
401	Upper Sioux Community, Minnesota	05DI	MN	100000316
402	Lower Sioux Indian Community in the State of Minnesota	05DI	MN	100000145
403	Prairie Island Indian Community in the State of Minnesota	05DI	MN	100000211
404	Minnesota Chippewa Tribe, Minnesota (Bois Forte Band (Nett Lake))	05DI	MN	100000571
405	Minnesota Chippewa Tribe, Minnesota (Fond du Lac Band)	05DI	MN	100000572
406	Minnesota Chippewa Tribe, Minnesota (Grand Portage Band)	05DI	MN	100000573
407	Minnesota Chippewa Tribe, Minnesota (Leech Lake Band)	05DI	MN	100000574
408	Minnesota Chippewa Tribe, Minnesota (Mille Lacs Band)	05DI	MN	100000575
409	Red Lake Band of Chippewa Indians, Minnesota	05DI	MN	100000237
410	Minnesota Chippewa Tribe, Minnesota (White Earth Band)	05DI	MN	100000576
411	Shakopee Mdewakanton Sioux Community of Minnesota	05DI	MN	100000269
430	Bad River Band of the Lake Superior Tribe of Chippewa Indians of the Bad River Reservation, Wisconsin	05DI	WI	100000012
431	Lac Courte Oreilles Band of Lake Superior Chippewa Indians of Wisconsin	05DI	WI	100000134
432	Lac du Flambeau Band of Lake Superior Chippewa Indians of the Lac du Flambeau Reservation of Wisconsin	05DI	WI	100000135
433	Oneida Tribe of Indians of Wisconsin	05DI	WI	100000183
434	Forest County Potawatomi Community, Wisconsin	05DI	WI	100000085
435	Red Cliff Band of Lake Superior Chippewa Indians of Wisconsin	05DI	WI	100000236
436	St. Croix Chippewa Indians of Wisconsin	05DI	WI	100000250
437	Sokaogon Chippewa Community, Wisconsin	05DI	WI	100000284
438	Stockbridge Munsee Community, Wisconsin	05DI	WI	100000290
439	Ho-Chunk Nation of Wisconsin	05DI	WI	100000101
440	Menominee Indian Tribe of Wisconsin	05DI	WI	100000155
468	Grand Traverse Band of Ottawa and Chippewa Indians, Michigan	05DI	MI	100000094
469	Sault Ste. Marie Tribe of Chippewa Indians, Michigan	05DI	MI	100000263
470	Bay Mills Indian Community, Michigan	05DI	MI	100000013
471	Hannahville Indian Community, Michigan	05DI	MI	100000099

BUREAU OF INDIAN AFFAIRS CODE	TRIBE NAME	PRIMACY AGENCY CODE	STATE	EPA TRIBAL ID
472	Saginaw Chippewa Indian Tribe of Michigan	05DI	MI	100000249
475	L'Anse Indian Reservation Keweenaw Bay Indian Community, Lake Superior Bands of Chippewa, Michigan	05DI	MI	100000124
479	Lac Vieux Desert Band of Lake Superior Chippewa Indians of Michigan	05DI	MI	100000136
480	Pokagon Band of Potawatomi Indians, Michigan and Indiana	05DI	MI	100000205
481	Nottawaseppi Huron Band of the Potawatomi Michigan	05DI	MI	100000178
482	Little River Band of Ottawa Indians, Michigan	05DI	MI	100000138
483	Little Traverse Bay Bands of Odawa Indians, Michigan	05DI	MI	100000139
484	Match-e-be-nash-she-wish Band of Pottawatomi Indians of Michigan	05DI	MI	100000153
490	Meskwaki Sac and Fox Tribe of the Mississippi in Iowa/Meskawaki Nation	07DI	IA	100000246
502	Alturas Indian Rancheria, California	09DI	CA	100000006
503	Scotts Valley Band of Pomo Indians of California	09DI	CA	100000264
504	Berry Creek Rancheria of Maidu Indians of California	09DI	CA	100000015
506	Big Sandy Rancheria of Western Mono Indians of California	09DI	CA	100000018
507	Big Valley Band of Pomo Indians of the Big Valley Rancheria, California	09DI	CA	100000019
508	Buena Vista Rancheria of Me-Wuk Indians of California	09DI	CA	100000023
509	Lytton Rancheria of California	09DI	CA	100000147
510	Cloverdale Rancheria of Pomo Indians of California	09DI	CA	100000047
511	Cold Springs Rancheria of Mono Indians of California	09DI	CA	100000050
512	Cachil DeHe Band of Wintun Indians of the Colusa Indian Community of the Colusa Rancheria, California	09DI	CA	100000026
513	Cortina Indian Rancheria of Wintun Indians of California	09DI	CA	100000064
515	Dry Creek Rancheria Band of Pomo Indians, California	09DI	CA	100000074
516	Robinson Rancheria Band of Pomo Indians, California	09DI	CA	100000243
517	Enterprise Rancheria of Maidu Indians of California	09DI	CA	100000081

Table A.2. Bureau of Indian Affairs code and EPA Tribal IDs with associated tribe names

BUREAU OF INDIAN AFFAIRS CODE	TRIBE NAME	PRIMACY AGENCY CODE	STATE	EPA TRIBAL ID
518	Fort Bidwell Indian Community of the Fort Bidwell Reservation of California	09DI	CA	100000087
519	Grindstone Indian Rancheria of Wintun-Wailaki Indians of California	09DI	CA	100000096
520	Utu Utu Gwaitu Paiute Tribe of the Benton Paiute Reservation, California	09DI	CA	100000320
521	Hopland Band of Pomo Indians, California	09DI	CA	100000105
522	Jackson Rancheria of Me-Wuk Indians of California	09DI	CA	100000113
523	Chicken Ranch Rancheria of Me-Wuk Indians of California	09DI	CA	100000042
524	Cahto Tribe of the Laytonville Rancheria	09DI	CA	100000029
525	Fort Independence Indian Community of Paiute Indians of the Fort Independence Reservation, California	09DI	CA	100000088
527	Manchester Band of Pomo Indians of the Manchester Rancheria, California	09DI	CA	100000149
528	Middletown Rancheria of Pomo Indians of California	09DI	CA	100000160
529	Ione Band of Miwok Indians of California	09DI	CA	100000110
530	Big Pine Paiute Tribe of the Owens Valley	09DI	CA	100000017
531	Mechoopda Indian Tribe of Chico Rancheria, California	09DI	CA	100000154
532	Northfork Rancheria of Mono Indians of California	09DI	CA	100000176
533	Paskenta Band of Nomlaki Indians of California	09DI	CA	100000194
534	Picayune Rancheria of Chukchansi Indians of California	09DI	CA	100000201
535	Pinoleville Pomo Nation, California	09DI	CA	100000202
536	Pit River Tribe, California (includes XL Ranch, Big Bend, Likely, Lookout, Montgomery Creek and Roaring Creek Rancherias)	09DI	CA	100000203
537	Potter Valley Rancheria of Pomo Indians of California	09DI	CA	100000209
538	Redding Rancheria, California	09DI	CA	100000238
539	Redwood Valley or Little River Band of Pomo Indians of the Redwood Valley Rancheria California	09DI	CA	100000239
540	Round Valley Indian Tribes, Round Valley Reservation, California	09DI	CA	100000245
541	Yocha Dehe Wintun Nation, California	09DI	CA	100000335
542	Santa Rosa Indian Community of the Santa Rosa Rancheria, California	09DI	CA	100000258
545	Greenville Rancheria	09DI	CA	100000095

BUREAU OF INDIAN AFFAIRS CODE	TRIBE NAME	PRIMACY AGENCY CODE	STATE	EPA TRIBAL ID
546	Shingle Springs Band of Miwok Indians, Shingle Springs Rancheria (Verona Tract), California	09DI	CA	100000272
547	Kashia Band of Pomo Indians of the Stewarts Point Rancheria, California	09DI	CA	100000121
549	Bishop Paiute Tribe	09DI	CA	100000189
550	Susanville Indian Rancheria, California	09DI	CA	100000294
551	Table Mountain Rancheria of California	09DI	CA	100000297
553	Tule River Indian Tribe of the Tule River Reservation, California	09DI	CA	100000307
554	Big Lagoon Rancheria, California	09DI	CA	100000016
555	Karuk Tribe	09DI	CA	100000120
556	Resighini Rancheria, California	09DI	CA	100000241
558	Blue Lake Rancheria, California	09DI	CA	100000021
559	Elk Valley Rancheria, California	09DI	CA	100000079
560	Bear River Band of the Rohnerville Rancheria, California	09DI	CA	100000014
561	Hoopa Valley Tribe, California	09DI	CA	100000103
562	Yurok Tribe of the Yurok Reservation, California	09DI	CA	100000338
563	Quartz Valley Indian Community of the Quartz Valley Reservation of California	09DI	CA	100000231
564	Smith River Rancheria, California	09DI	CA	100000281
565	Wiyot Tribe, California	09DI	CA	100000329
566	Cher-Ae Heights Indian Community of the Trinidad Rancheria, California	09DI	CA	100000037
567	Augustine Band of Cahuilla Indians, California	09DI	CA	100000011
568	Cabazon Band of Mission Indians, California	09DI	CA	100000025
569	Cahuilla Band of Mission Indians of the Cahuilla Reservation, California	09DI	CA	100000028
570	Campo Band of Diegueno Mission Indians of the Campo Indian Reservation, California	09DI	CA	100000031
571	Capitan Grande Band of Diegueno Mission Indians of California: (Barona Group of Capitan Grande Band of Mission Indians of the Barona Reservation, California; Viejas (Baron Long) Group of Capitan Grande Band of Mission Indians of the Viejas Reservation, Ca	09DI	CA	100000032
572	Capitan Grande Band of Diegueno Mission Indians of California: Barona Group of Capitan Grande Band of Mission Indians of the Barona Reservation, California	09DI	CA	100000581
573	Ewiiaapaayp Band of Kumeyaay Indians, California (was Cuyapaipe in 2000 Census)	09DI	CA	100000082
574	Inaja Band of Diegueno Mission Indians of the Inaja and Cosmit Reservation, California	09DI	CA	100000109

Table A.2. Bureau of Indian Affairs code and EPA Tribal IDs with associated tribe names

BUREAU OF INDIAN AFFAIRS CODE	TRIBE NAME	PRIMACY AGENCY CODE	STATE	EPA TRIBAL ID
575	Jamul Indian Village of California	09DI	CA	100000115
576	La Jolla Band of Luiseno Indians, California	09DI	CA	100000132
577	La Posta Band of Diegueno Mission Indians of the La Posta Indian Reservation, California	09DI	CA	100000133
578	Los Coyotes Band of Cahuilla and Cupeno Indians, California	09DI	CA	100000141
579	Manzanita Band of Diegueno Mission Indians of the Manzanita Reservation, California	09DI	CA	100000150
580	Mesa Grande Band of Diegueno Mission Indians of the Mesa Grande Reservation, California	09DI	CA	100000156
582	Morongo Band of Mission Indians, California	09DI	CA	100000167
583	Pala Band of Luiseno Mission Indians of the Pala Reservation, California	09DI	CA	100000192
584	Agua Caliente Band of Cahuilla Indians of the Agua Caliente Indian Reservation, California	09DI	CA	100000002
585	Pauma Band of Luiseno Mission Indians of the Pauma and Yuima Reservation, California	09DI	CA	100000196
586	Pechanga Band of Luiseno Mission Indians of the Pechanga Reservation, California	09DI	CA	100000198
587	Rincon Band of Luiseno Mission Indians of the Rincon Reservation, California	09DI	CA	100000242
588	San Manuel Band of Mission Indians, California	09DI	CA	100000256
589	San Pasqual Band of Diegueno Mission Indians of California	09DI	CA	100000257
590	Santa Rosa Band of Cahuilla Indians, California	09DI	CA	100000259
591	Santa Ynez Band of Chumash Mission Indians of the Santa Ynez Reservation, California	09DI	CA	100000260
592	Iipay Nation of Santa Ysabel, California	09DI	CA	100000108
593	Soboba Band of Luiseno Indians, California	09DI	CA	100000283
594	Sycuan Band of the Kumeyaay Nation	09DI	CA	100000296
595	Torres Martinez Desert Cahuilla Indians, California	09DI	CA	100000306
597	Ramona Band of Cahuilla, California	09DI	CA	100000235
598	Twenty-Nine Palms Band of Mission Indians of California	09DI	CA	100000313
599	Capitan Grande Band of Diegueno Mission Indians of California: Viejas (Baron Long) Group of Capitan Grande Band of Mission Indians of the Viejas Reservation, California	09DI	CA	100000582
601	Yavapai-Apache Nation of the Camp Verde Indian Reservation, Arizona	09DI	AZ	100000332
602	Cocopah Tribe of Arizona	09DI	AZ	100000048
603	Colorado River Indian Tribes of the Colorado River Indian Reservation, Arizona and California	09DI	CA	100000051

BUREAU OF INDIAN AFFAIRS CODE	TRIBE NAME	PRIMACY AGENCY CODE	STATE	EPA TRIBAL ID
604	Fort Mojave Indian Tribe of Arizona, California and Nevada	09DI	AZ	100000091
605	Havasupai Tribe of the Havasupai Reservation, Arizona	09DI	AZ	100000100
606	Hualapai Indian Tribe of the Hualapai Indian Reservation, Arizona	09DI	AZ	100000107
607	White Mountain Apache Tribe of the Fort Apache Reservation, Arizona	09DI	AZ	100000324
608	Hopi Tribe of Arizona	09DI	AZ	100000104
610	Tohono O'odham Nation of Arizona	09DI	AZ	100000302
612	Ak Chin Indian Community of the Maricopa (Ak Chin) Indian Reservation, Arizona	09DI	AZ	100000003
613	Fort McDowell Yavapai Nation, Arizona	09DI	AZ	100000090
614	Gila River Indian Community of the Gila River Indian Reservation, Arizona	09DI	AZ	100000093
615	Salt River Pima-Maricopa Indian Community of the Salt River Reservation, Arizona	09DI	AZ	100000252
616	San Carlos Apache Tribe of the San Carlos Reservation, Arizona	09DI	AZ	100000254
617	Kaibab Band of Paiute Indians of the Kaibab Indian Reservation, Arizona	09DI	AZ	100000118
618	Yavapai-Prescott Indian Tribe	09DI	AZ	100000333
621	Cedarville Rancheria, California	09DI	CA	100000035
622	Graton Rancheria, California	09DI	CA	100000083
624	Lone Pine Paiute-Shoshone Tribe	09DI	CA	100000191
626	Mooretown Rancheria of Maidu Indians of California	09DI	CA	100000166
628	California Valley Miwok Tribe, California (formerly the Sheep Ranch Rancheria of Me Wuk Indians of California)	09DI	CA	100000030
629	Sherwood Valley Rancheria of Pomo Indians of California	09DI	CA	100000271
632	Elem Indian Colony of Pomo Indians of the Sulphur Bank Rancheria, California	09DI	CA	100000078
634	Tuolumne Band of Me-Wuk Indians of the Tuolumne Rancheria of California	09DI	CA	100000310
636	Habematolel Pomo of Upper Lake, California	09DI	CA	100000098
637	United Auburn Indian Community of the Auburn Rancheria of California	09DI	CA	100000314
638	Coyote Valley Band of Pomo Indians of California	09DI	CA	100000068
640	Te-Moak Tribe of Western Shoshone Indians of Nevada (Four constituent bands: Battle	09DI	NV	100000299

Table A.2. Bureau of Indian Affairs code and EPA Tribal IDs with associated tribe names

BUREAU OF INDIAN AFFAIRS CODE	TRIBE NAME	PRIMACY AGENCY CODE	STATE	EPA TRIBAL ID
	Mountain Band; Elko Band; South Fork Band and Wells Band)			
641	Shoshone-Paiute Tribes of the Duck Valley Reservation, Nevada	09DI	NV	100000277
642	Duckwater Shoshone Tribe of the Duckwater Reservation, Nevada	09DI	NV	100000075
643	Te-Moak Tribe of Western Shoshone Indians of Nevada (Elko Band)	09DI	NV	100000578
644	Ely Shoshone Tribe of Nevada	09DI	NV	100000080
645	Paiute-Shoshone Tribe of the Fallon Reservation and Colony, Nevada	09DI	NV	100000190
646	Fort McDermitt Paiute and Shoshone Tribes of the Fort McDermitt Indian Reservation, Nevada and Oregon	09DI	NV	100000089
648	Las Vegas Tribe of Paiute Indians of the Las Vegas Indian Colony, Nevada	09DI	NV	100000137
649	Lovelock Paiute Tribe of the Lovelock Indian Colony, Nevada	09DI	NV	100000142
650	Moapa Band of Paiute Indians of the Moapa River Indian Reservation, Nevada	09DI	NV	100000163
651	Pyramid Lake Paiute Tribe of the Pyramid Lake Reservation, Nevada	09DI	NV	100000229
653	Reno-Sparks Indian Colony, Nevada	09DI	NV	100000240
655	Summit Lake Paiute Tribe of Nevada	09DI	NV	100000292
656	Walker River Paiute Tribe of the Walker River Reservation, Nevada	09DI	NV	100000321
659	Winnemucca Indian Colony of Nevada	09DI	NV	100000328
660	Yerington Paiute Tribe of the Yerington Colony and Campbell Ranch, Nevada	09DI	NV	100000334
661	Yomba Shoshone Tribe of the Yomba Reservation, Nevada	09DI	NV	100000336
662	Te-Moak Tribe of Western Shoshone Indians of Nevada (South Fork Band)	09DI	NV	100000579
665	Pascua Yaqui Tribe of Arizona	09DI	AZ	100000193
672	Washoe Tribe of Nevada and California (Carson Colony, Dresslerville Colony, Woodfords Community, Stewart Community, and Washoe Ranches)	09DI	CA	100000323
674	Tonto Apache Tribe of Arizona	09DI	AZ	100000305
681	Confederated Tribes of the Goshute Reservation, Nevada and Utah	09DI	NV	100000057
682	Skull Valley Band of Goshute Indians of Utah	08DI	UT	100000280
687	Ute Indian Tribe of the Uintah and Ouray Reservation, Utah	08DI	UT	100000318

BUREAU OF INDIAN AFFAIRS CODE	TRIBE NAME	PRIMACY AGENCY CODE	STATE	EPA TRIBAL ID
689	San Juan Southern Paiute Tribe of Arizona	09DI	AZ	100000255
691	Bridgeport Indian Colony	09DI	CA	100000022
692	Paiute Indian Tribe of Utah (Cedar Band of Paiutes, Kanosh Band of Paiutes, Koosharem Band of Paiutes, Indian Peaks Band of Paiutes, and Shivwits Band of Paiutes)	08DI	UT	100000188
693	Death Valley Timbi-sha Shoshone Tribe	09DI	CA	100000071
695	Chemehuevi Indian Tribe of the Chemehuevi Reservation, California	09DI	CA	100000036
696	Quechan Tribe of the Fort Yuma Indian Reservation, California and Arizona	09DI	CA	100000232
701	Jicarilla Apache Nation, New Mexico	06DI	NM	100000117
702	Mescalero Apache Tribe of the Mescalero Reservation, New Mexico	06DI	NM	100000157
703	Pueblo of Acoma, New Mexico	06DI	NM	100000212
704	Pueblo of Cochiti, New Mexico	06DI	NM	100000213
705	Pueblo of Isleta, New Mexico	06DI	NM	100000215
706	Pueblo of Jemez, New Mexico	06DI	NM	100000214
707	Pueblo of Laguna, New Mexico	06DI	NM	100000216
708	Pueblo of Nambe, New Mexico	06DI	NM	100000217
709	Pueblo of Picuris, New Mexico	06DI	NM	100000218
710	Pueblo of Pojoaque, New Mexico	06DI	NM	100000219
711	Pueblo of Sandia, New Mexico	06DI	NM	100000222
712	Pueblo of San Felipe, New Mexico	06DI	NM	100000220
713	Pueblo of San Ildefonso, New Mexico	06DI	NM	100000221
714	Ohkay Owingeh, New Mexico. Was San Juan in 2000 Census.	06DI	NM	100000180
715	Pueblo of Santa Ana, New Mexico	06DI	NM	100000223
716	Pueblo of Santa Clara, New Mexico	06DI	NM	100000224
717	Kewa Pueblo, New Mexico	06DI	NM	100000123
718	Pueblo of Taos, New Mexico	06DI	NM	100000225
719	Pueblo of Tesuque, New Mexico	06DI	NM	100000226
720	Pueblo of Zia, New Mexico	06DI	NM	100000227
721	Zuni Tribe of the Zuni Reservation, New Mexico	06DI	NM	100000339
725	Ysleta Del Sur Pueblo of Texas	06DI	TX	100000337
750	Southern Ute Indian Tribe of the Southern Ute Reservation, Colorado	08DI	CO	100000285
751	Ute Mountain Tribe of the Ute Mountain Reservation, Colorado, New Mexico and Utah	06DI	NM	100000319
780	Navajo Nation, Arizona, New Mexico and Utah		AZ	100000171
801	Cheyenne-Arapaho Tribes of Oklahoma	06DI	OK	100000039
802	Kiowa Indian Tribe of Oklahoma	06DI	OK	100000129
803	Fort Sill Apache Tribe of Oklahoma	06DI	OK	100000092

Table A.2. Bureau of Indian Affairs code and EPA Tribal IDs with associated tribe names

BUREAU OF INDIAN AFFAIRS CODE	TRIBE NAME	PRIMACY AGENCY CODE	STATE	EPA TRIBAL ID
804	Wichita and Affiliated Tribes (Wichita, Keechi, Waco and Tawakonie), Oklahoma	06DI	OK	100000325
806	Caddo Indian Tribe of Oklahoma	06DI	OK	100000027
807	Delaware Nation, Oklahoma	06DI	OK	100000072
808	Comanche Nation, Oklahoma	06DI	OK	100000052
809	Apache Tribe of Oklahoma	06DI	OK	100000007
810	Kaw Nation, Oklahoma	06DI	OK	100000122
811	Otoe-Missouria Tribe of Indians, Oklahoma	06DI	OK	100000187
812	Pawnee Nation of Oklahoma	06DI	OK	100000197
813	Ponca Tribe of Indians of Oklahoma	06DI	OK	100000206
814	Tonkawa Tribe of Indians of Oklahoma	06DI	OK	100000304
816	Delaware Tribe of Indians	06DI	OK	100000073
820	Absentee-Shawnee Tribe of Indians of Oklahoma	06DI	OK	100000001
821	Citizen Potawatomi Nation, Oklahoma	06DI	OK	100000046
822	Iowa Tribe of Oklahoma	06DI	OK	100000112
823	Kickapoo Tribe of Oklahoma	06DI	OK	100000127
824	Sac and Fox Nation, Oklahoma	06DI	OK	100000248
826	Kickapoo Traditional Tribe of Texas	06DI	TX	100000128
830	Alabama-Coushatta Tribe of Texas	06DI	TX	100000004
860	Iowa Tribe of Kansas and Nebraska	07DI	NE	100000111
861	Kickapoo Tribe of Indians of the Kickapoo Reservation in Kansas	07DI	KS	100000126
862	Prairie Band Potawatomi Nation	07DI	KS	100000210
863	Sac and Fox Nation of Missouri in Kansas and Nebraska	07DI	KS	100000247
901	Alabama-Quassarte Tribal Town, Oklahoma	06DI	OK	100000005
902	Kialegee Tribal Town	06DI	OK	100000125
903	Thlopthlocco Tribal Town	06DI	OK	100000300
904	United Keetoowah Band of Cherokee Indians in Oklahoma	06DI	OK	100000315
905	Cherokee Nation, Oklahoma	06DI	OK	100000038
906	Chickasaw Nation, Oklahoma	06DI	OK	100000041
907	Choctaw Nation of Oklahoma	06DI	OK	100000045
908	The Muscogee (Creek) Nation	06DI	OK	100000169
909	The Seminole Nation of Oklahoma	06DI	OK	100000265
911	Shawnee Tribe	06DI	OK	100000270
920	The Quapaw Tribe of Indians	06DI	OK	100000230
921	Eastern Shawnee Tribe of Oklahoma	06DI	OK	100000077
922	Ottawa Tribe of Oklahoma	06DI	OK	100000186
923	Seneca-Cayuga Nation of Oklahoma	06DI	OK	100000268
924	Wyandotte Nation	06DI	OK	100000330
925	Miami Tribe of Oklahoma1	06DI	OK	100000158
926	Peoria Tribe of Indians of Oklahoma	06DI	OK	100000200

BUREAU OF INDIAN AFFAIRS CODE	TRIBE NAME	PRIMACY AGENCY CODE	STATE	EPA TRIBAL ID
927	The Modoc Tribe of Oklahoma	06DI	OK	100000164
930	The Osage Nation	06DI	OK	100000185
970	Chitimacha Tribe of Louisiana	06DI	LA	100000044
971	Coushatta Tribe of Louisiana	06DI	LA	100000065
980	Mississippi Band of Choctaw Indians	04DI	MS	100000162

This page is intentionally blank

Appendix B: Template Data Dictionary

Table B.1. Data dictionary for the UIC Summary Well Inventory Template

FIELD NAME	DESCRIPTION
PRI_AGENCY_CODE	Four-character unique code assigned to each agency or EPA Region in the National UIC Database. Please see worksheet "Primacy Agency Codes" in this file for the list of codes.
FedFiscalYr	Federal fiscal year. Four-character field size, e.g. 2018.
Region	EPA Region where state primacy or EPA Regional office is located. Two-character field size. Options range from 01 - 10.
State	State where program or EPA Region implements program. State name format should be full name, not two-character postal abbreviation. Tribal programs should leave this field blank.
Tribe	Bureau of Indian Affairs Code unique to each tribe. Please see worksheet "Tribe Codes" for the list of codes.
ClassIH	Number of Class I Hazardous wells with operating status of Proposed, Under Construction, Active, or Temporarily Abandoned. Wells with status of permanently abandoned should be excluded from inventory.
ClassIOther	Number of Class I Other wells with operating status of Proposed, Under Construction, Active, or Temporarily Abandoned. Wells with status of permanently abandoned should be excluded from inventory.
ClassIID	Number of Class II Disposal wells with operating status of Proposed, Under Construction, Active, or Temporarily Abandoned. Wells with status of permanently abandoned should be excluded from inventory.
ClassIIR	Number of Class II Enhanced Recovery wells with operating status of Proposed, Under Construction, Active, or Temporarily Abandoned. Wells with status of permanently abandoned should be excluded from inventory.
ClassIIOther	Number of Class II Other wells with operating status of Proposed, Under Construction, Active, or Temporarily Abandoned. Wells with status of permanently abandoned should be excluded from inventory.
ClassIIIWells	Number of Class III wells with operating status of Proposed, Under Construction, Active, or Temporarily Abandoned. Wells with status of permanently abandoned should be excluded from inventory.
ClassIIISites	Number of Class III *sites* containing wells with operating status of Proposed, Under Construction, Active, or Temporarily Abandoned. Wells with status of permanently abandoned should be excluded from inventory.
ClassIVWells	Number of Class IV wells with operating status of Proposed, Under Construction, Active, or Temporarily Abandoned. Wells with status of permanently abandoned should be excluded from inventory.
ClassVWells	Number of Class V wells with operating status of Proposed, Under Construction, Active, or Temporarily Abandoned. Wells with status of permanently abandoned should be excluded from inventory.
ClassVIWells	Number of Class VI wells with operating status of Proposed, Under Construction, Active, or Temporarily Abandoned. Wells with status of permanently abandoned should be excluded from inventory.

Table B.2. Data dictionary for the UIC Well Specific Inventory Template

FIELD NAME	DESCRIPTION	REQUIRED OR OPTIONAL?
PRI_AGENCY_CODE	Four-character unique code assigned to each agency or EPA Region in the National UIC Database. Please see worksheet "Primacy Agency Codes" in this file for the list of codes.	**Required field**
FedFiscalYr	Federal fiscal year. Four-character field size.	**Required field**
Region	EPA Region where state primacy or EPA Regional office is located. Two-character field size. Options range from 01 - 10.	**Required field**
State	State where program or EPA Region implements program. State name format should be full name, not two-character postal abbreviation. Tribal programs should leave this field blank.	**Required** that a program enter either State OR Tribe, but not both
Tribe	Bureau of Indian Affairs Code unique to each tribe. Please see worksheet "Tribe Codes" for the list of codes.	
WellType	Well class and subclass assigned to well, e.g. '5A14'. Please see worksheet "Well Types & Classes" (Column A) in this file for the list of Well Types. Format is the same as used by the National UIC Database. This field is used in the app to assign the appropriate summary-level well class for inventory, e.g. 'Class5'.	**Required** that a program enter either Well Type OR WellSummaryClass, but not both.
WellSummaryClass	Well classes used in the summary inventory form. Please see worksheet "Well Types & Classes" (Column E) in this file for the list of Well Summary Classes.	
WellID	Permanent, unique ID assigned to each well by the program. The IDs will be unique to the program inventory but need not necessarily be unique to the entire list of well-specific inventory. This field should be assigned to the well for the life of the well.	**Required field**
WellName	Name of well assigned by each program, e.g. Allen Farm #4.	Optional field
OpStatus	Two-letter operating status code of the well. The only operating statuses that will be used to calculate summary inventory are the following: "AC" active, "UC" under construction, "TA" temporarily abandoned/inactive, or "PW" proposed well.	Optional field
OpStatusDate	Date of the last operating status. Status may change over the life of the well and this date reflects when the change in status occurred.	Optional field
Well_Site	Name of the area where many Class III injection wells are physically located or conducted.	**For Class III wells, required field**. For all other wells, optional field.
Facility_ID	Unique identification of Facility assigned by the program.	Optional field

FIELD NAME	DESCRIPTION	REQUIRED OR OPTIONAL?
FacilityName	The public or commercial name of a facility site (i.e. the full name that commonly appears on invoices, signs, or other business documents, or as assigned by the state when the name is ambiguous).	Optional field
Latitude	Longitude of the well location in decimal degrees	Optional field
Longitude	Latitude of the well location in decimal degrees	Optional field
County	County where the well is located.	Optional field
Comments	Comments related to well specific inventory record.	Optional field

Table B.3. Data Dictionary for the 7520-1 to 7520-3 Import Template

FIELD NAME	DESCRIPTION	SOURCE OF FIELD	FORM SECTION
PRI_AGENCY_CODE	Four-character unique code assigned to each agency or EPA Region in the National UIC Database. Please see worksheet "Primacy Agency Codes" in this file for the list of codes.		
FedFiscalYr	Federal fiscal year. Four-character field size.		
FYQuarter	Indicates the quarter of the fiscal year represented by the data, e.g. 1Q, 2Q, 3Q, 4Q. For the 7520-1 through -3, mid-year reporting will be represented by "2Q" and end of year reporting will be represented by "4Q." Inventory data will be assigned "4Q" to represent end of year reporting.		
Region	EPA Region where state primacy or EPA Regional office is located. Two-character field size. Options range from 01 - 10.		
State	State where program or EPA Region implements program. State name format should be full name, not two-character postal abbreviation.		
Tribe	Bureau of Indian Affairs Code unique to each tribe. Please see worksheet "Tribe Codes" for the list of codes.		
WellClass	Injection well class. Options include 1, 2R, 2D, 2H, 3, 4, or 5 for Forms 7520.		
PermitApps	Number of permit applications received within the reporting period	7520-1	V
IndPermitNew	Number of individual permits issued for new wells. A new well is any well that began operation after the effective date of the state or EPA UIC program.	7520-1	VI.A. New wells
IndPermitExist	Number of individual permits issued for existing wells. Existing wells are those wells in existence on the effective date of the state or EPA UIC program.	7520-1	VI.A. Existing wells
AreaPermitNew	Number of area permits issued at new well fields. A new well field has only new wells or a combination of new wells and existing wells.	7520-1	VI.B. New well field

Table B.3. Data Dictionary for the 7520-1 to 7520-3 Import Template

FIELD NAME	DESCRIPTION	SOURCE OF FIELD	FORM SECTION
AreaPermitExist	Number of area permits issued at existing well fields. Existing well fields contain only existing wells.	7520-1	VI.B. Existing well field
AreaWellNew	Number of new wells in area permits	7520-1	VI.C. New wells
AreaWellExist	Number of existing wells in area permits	7520-1	VI.C. Existing wells
PermitDenied	Number of permits denied or withdrawn	7520-1	VI.D.
PermitMod	Number of major permit modifications approved	7520-1	VI.E.
RAIIReview	Number of rule-authorized Class II wells reviewed	7520-1	VII. Wells reviewed
RAIIDeficient	Number of rule-authorized Class II wells reviewed that are deficient	7520-1	VII. Wells Deficient
AORWellAbandon	Number of wells in area of review that are abandoned wells	7520-1	VIII.A. Abandoned wells
AORWellOther	Number of wells in area of review other than abandoned wells	7520-1	VIII.A. Other wells
AORWellCAAbandon	Number of abandoned wells in area of review **that are identified for correction action**	7520-1	VIII.B. Abandoned wells
AORWellCAOther	Number of wells, other than abandoned, in area of review **that are identified for corrective action**	7520-1	VIII.B. Other wells
AORWellCasing	Number of wells in area of review with casing repaired/recemented as corrective action	7520-1	VIII.C.1.
AORWellPlug	Number of active wells in area of review that were plugged/abandoned as corrective action	7520-1	VIII.C.2.
AORWellReplug	Number of abandoned wells in area of review that were replugged as corrective action	7520-1	VIII.C.3.
AORWellOtherCA	Number of wells in area of review with corrective actions not otherwise identified in 7520-1 section VIII.C.	7520-1	VIII.C.4.
Remark75201	Remarks or ad hoc report on 7520-1	7520-1	IX.
WellsViolation	Number of wells with violations	7520-2A	V.A.
UAViolations	Number of unauthorized injection violations	7520-2A	V.B.1
MIViolations	Number of mechanical integrity violations	7520-2A	V.B.2.
OMViolations	Number of operation and maintenance violations	7520-2A	V.B.3.

FIELD NAME	DESCRIPTION	SOURCE OF FIELD	FORM SECTION
PAViolations	Number of plugging and abandonment violations	7520-2A	V.B.4.
MRViolations	Number of monitoring and reporting violations	7520-2A	V.B.5.
OtherViolations	Number of other violations	7520-2A	V.B.6.
OtherViolationsSpec	Remarks to specify the type of other violations	7520-2A	V.B.6.
WellsEA	Number of wells with enforcement actions	7520-2A	A.
NOV_EA	Number of notices of violation	7520-2A	VI.B.1.
ConsentAgree_EA	Number of consent agreements	7520-2A	VI.B.2.
AdminOrder_EA	Number of administrative orders	7520-2A	VI.B.3.
CivilReferral_EA	Number of civil referrals	7520-2A	VI.B.4.
CrimReferral_EA	Number of criminal referrals	7520-2A	VI.B.5.
ShutIn_EA	Number of well shut-ins	7520-2A	VI.B.6.
PipeSev_EA	Number of pipeline severances	7520-2A	VI.B.7
Other_EA	Number of other enforcement actions	7520-2A	VI.B.8.
Other_EA_Spec	Remarks to specify the type of other enforcement actions	7520-2A	VI.B.8.
WellRTC	Number of wells returned to compliance during the time period represented by the dataset, as indicated in FYQuarter field.	7520-2A	VII.A.
Contamination	Number of cases of alleged contamination of an underground source of drinking water	7520-2A	VIII.
MITResolved	Percent of mechanical integrity test violations resolved in 90 days. Appropriate responses include 0 to 100 or NA if not applicable.	7520-2A	IX.
Remark75202A	Remarks or ad hoc report on 7520-2A	7520-2A	X.
WellSNC	Number of wells with significant non-compliance violations	7520-2B	V.A.
UAViolations_SNC	Number of unauthorized injection significant non-compliance violations	7520-2B	V.B.1
MIViolation_SNC	Number of mechanical integrity significant non-compliance violations	7520-2B	V.B.2.
Pressure_SNC	Number of injection pressure significant non-compliance violations	7520-2B	V.B.3.
PAViolations_SNC	Number of plugging and abandonment significant non-compliance violations	7520-2B	V.B.4.

Table B.3. Data Dictionary for the 7520-1 to 7520-3 Import Template

FIELD NAME	DESCRIPTION	SOURCE OF FIELD	FORM SECTION
Orders_SNC	Number of significant non-compliance violation of formal orders	7520-2B	V.B.5.
Falsification_SNC	Number of falsification significant non-compliance violations	7520-2B	V.B.6.
Other_SNC	Number of other significant non-compliance violations	7520-2B	V.B.7.
Other_SNC_Spec	Remarks to specify the type of other violations for wells in significant non-compliance	7520-2B	V.B.7.
WellsEA_SNC	Number of wells with enforcement actions against significant non-compliance	7520-2B	VI.A.
NOV_SNC	Number of notices of violation against significant non-compliance	7520-2B	VI.B.1.
ConsentAgree_SNC	Number of consent agreements/orders against significant non-compliance	7520-2B	VI.B.2.
AdminOrder_SNC	Number of administrative orders against significant non-compliance	7520-2B	VI.B.3.
CivilReferral_SNC	Number of civil referrals against significant non-compliance	7520-2B	VI.B.4.
CrimReferral_SNC	Number of criminal referrals against significant non-compliance	7520-2B	VI.B.5.
ShutIn_SNC	Number of well shut-ins against significant non-compliance	7520-2B	VI.B.6.
PipeSev_SNC	Number of pipeline severances against significant non-compliance	7520-2B	VI.B.7.
Other_SNC_EA	Number of other enforcement actions against significant non-compliance	7520-2B	VI.B.8.
Other_SNC_EA_Spec	Remarks to specify the type of other enforcement actions for wells in significant non-compliance	7520-2B	VI.B.8.
WellRTC_SNC	Number of wells in significant non-compliance returned to compliance during the time period represented by the dataset, as indicated in FYQuarter field.	7520-2B	VII.
Contamination_SNC	Number of cases of alleged contamination of an underground source of drinking water from a significant non-compliance	7520-2B	VIII.
InvoluntaryClosure	Number of Class IV or endangering Class V involuntary well closures. This field applies ONLY to Class IV or Class V wells.	7520-2B	IX. Involuntary
VoluntaryClosure	Number of Class IV or endangering Class V voluntary well closures. This field applies ONLY to Class IV or Class V wells.	7520-2B	IX. Voluntary
WellsInspected	Number of wells inspected	7520-3	V.A.
MITInspections	Number of mechanical integrity tests witnessed	7520-3	V.B.1.
ERInspections	Number of emergency response or complaint response inspections	7520-3	V.B.2.
Construct_Inspections	Number of well constructions witnessed	7520-3	V.B.3.
PlugInspections	Number of well pluggings witnessed	7520-3	V.B.4.
RoutineInspections	Number of routine or periodic inspections	7520-3	V.B.5.
WellsMIT	Number of wells tested or evaluated for mechanical integrity	7520-3	VI.A.

Table B.3. Data Dictionary for the 7520-1 to 7520-3 Import Template

FIELD NAME	DESCRIPTION	SOURCE OF FIELD	FORM SECTION
RAWellsMIT_Pass	Number of rule-authorized wells tested/evaluated for mechanical integrity that passed the two-part test	7520-3	VI.B. Passed
RAWellsMIT_Fail	Number of rule-authorized wells tested/evaluated for mechanical integrity that failed the two-part test	7520-3	VI.B. Failed
APEval_Pass	Number of annulus pressure monitoring record evaluations where well passed	7502-3	VI.C.1. Passed
APEval_Fail	Number of annulus pressure monitoring record evaluations where well failed	7520-3	VI.C.1. Failed
CasingPressure_Pass	Number of casing/tubing pressure tests where well passed	7520-3	VI.C.2. Passed
CasingPressure_Fail	Number of casing/tubing pressure tests where well failed	7520-3	VI.C.2. Failed
MonitorEval_Pass	Number of monitoring record evaluations where well passed	7520-3	VI.C.3. Passed
MonitorEval_Fail	Number of monitoring record evaluations where well failed	7520-3	VI.C.3. Failed
OtherLeakEval_Pass	Number of other significant leak tests/evaluations where well passed	7520-3	VI.C.4. Passed
OtherLeakEval_Fail	Number of other significant leak tests/evaluations where well failed	7520-3	VI.C.4. Failed
OtherLeakEval_Spec	Remarks to specify the type of other significant leak tests/evaluations	7520-3	VI.C.4. (specify)
CementEval_Pass	Number of cement record evaluations where well passed	7520-3	VI.D.1. Passed
CementEval_Fail	Number of cement record evaluations where well failed	7520-3	VI.D.1. Failed
TempTest_Pass	Number of temperature/noise log tests where well passed	7520-3	VI.D.2. Passed
TempTest_Fail	Number of temperature/noise log tests where well failed	7520-3	VI.D.2. Failed
RadTest_Pass	Number of radioactive tracer/cement bond tests where well passed	7520-3	VI.D.3. Passed
RadTest_Fail	Number of radioactive tracer/cement bond tests where well failed	7520-3	VI.D.3. Failed
OtherFluidTest_Pass	Number of other fluid migration tests/evaluations where well passed	7520-3	VI.D.4. Passed
OtherFluidTest_Fail	Number of other fluid migration tests/evaluations where well failed	7520-3	VI.D.4. Failed
OtherFluidTest_Spec	Remarks to specify the type of other fluid migration tests/evaluations	7520-3	VI.D.4. (specify)
WellsRemedialAction	Number of wells with remedial action	7520-3	VII.A.
Remedial_Casing	Number of casing repaired/squeeze cement remedial actions	7520-3	VII.B.1.
Remedial_Tubing	Number of tubing/packer remedial actions	7520-3	VII.B.2.

Table B.4. Data Dictionary for the 7520-4 Import Template

FIELD NAME	DESCRIPTION	SOURCE OF FIELD	FORM SECTION
Remedial_Plug	Number of plugging/abandonment remedial actions	7520-3	VII.B.3.
Remedial_Other	Number of other remedial actions	7520-3	VII.B.4
Remedial_Other_Spec	Remarks to specify the type of other remedial actions	7520-3	VII.B.4 (specify)
Remark75203	Remarks or ad hoc report on 7520-3	7520-3	VIII.

Table B.4. Data Dictionary for the 7520-4 Import Template

FIELD NAME	DESCRIPTION	SOURCE OF FIELD	FORM SECTION
PRI_AGENCY_CODE	Four-character unique code assigned to each agency or EPA Region in the National UIC Database. Please see worksheet "Primacy Agency Codes" in this file for the list of codes.		
FedFiscalYr	Federal fiscal year. Four-character field size.		
FYQuarter	Indicates the quarter of the fiscal year represented by the data, e.g. 1Q, 2Q, 3Q, 4Q. For the 7520-1 through -3, mid-year reporting will be represented by "2Q" and end of year reporting will be represented by "4Q." Inventory data will be assigned "4Q" to represent end of year reporting.		
Region	EPA Region where state primacy or EPA Regional office is located. Two-character field size. Options range from 01 - 10.		
State	State where program or EPA Region implements program. State name format should be full name, not two-character postal abbreviation. Tribal programs should leave this field blank.		
Tribe	Bureau of Indian Affairs Code unique to each tribe. Please see worksheet "Tribe Codes" for the list of codes.		
WellClass	Injection well class. Options include 1H for hazardous waste, 1M for municipal waste, 1I for industrial waste, 2R for enhanced recover, 2D for saltwater disposal, 2H for liquid hydrocarbon storage, 3, 4, 5 for Form 7520-4.	7520-4	II.
OperatorName	Name of the primary contact for the injection well	7520-4	III.
OperatorStreet	Street address of the primary contact for the injection well	7520-4	III.
OperatorCity	City of the primary contact for the injection well	7520-4	III.
OperatorState	State of the primary contact for the injection well	7520-4	III.
OperatorZIP	ZIP code of the primary contact for the injection well	7520-4	III.

FIELD NAME	DESCRIPTION	SOURCE OF FIELD	FORM SECTION
WellNumber	Well identification number or permit number. A program may report "none" in this field if there is no data to report.	7520-4	IV.
ViolationDate	Date of violation	7520-4	V.
UAViolations_QEL	Unauthorized injection violation. Enter "X" if this type of violation occurred; otherwise, the field may be left blank.	7520-4	V.
MIViolation_QEL	Mechanical integrity violation. Enter "X" if this type of violation occurred; otherwise, the field may be left blank.	7520-4	V.
Pressure_QEL	Injection pressure violation. Enter "X" if this type of violation occurred; otherwise, the field may be left blank.	7520-4	V.
PAViolations_QEL	Plugging and abandonment violation. Enter "X" if this type of violation occurred; otherwise, the field may be left blank.	7520-4	V.
Orders_QEL	Formal order violation. Enter "X" if this type of violation occurred; otherwise, the field may be left blank.	7520-4	V.
Falsification_QEL	Falsification violation. Enter "X" if this type of violation occurred; otherwise, the field may be left blank.	7520-4	V.
OtherViolation_QEL	Other type of violation. Enter "X" if this type of violation occurred; otherwise, the field may be left blank.	7520-4	V.
OtherViolation_QEL_Specific	Description of other type of violation (255 characters allowed)	7520-4	V.
EnforcementDate	Date of enforcement	7520-4	VI.
NOV_QEL	Notice of violation enforcement type. Enter "X" if this type of enforcement action was taken; otherwise, the field may be left blank.	7520-4	VI.
ConsentAgree_QEL	Consent agreement enforcement type. Enter "X" if this type of enforcement action was taken; otherwise, the field may be left blank.	7520-4	VI.
AdminOrder_QEL	Administrative order enforcement type. Enter "X" if this type of enforcement action was taken; otherwise, the field may be left blank.	7520-4	VI.
CivilReferral_QEL	Civil referral enforcement type. Enter "X" if this type of enforcement action was taken; otherwise, the field may be left blank.	7520-4	VI.
CrimReferral_QEL	Criminal referral enforcement type. Enter "X" if this type of enforcement action was taken; otherwise, the field may be left blank.	7520-4	VI.
ShutIn_QEL	Well shut-in enforcement type. Enter "X" if this type of enforcement action was taken; otherwise, the field may be left blank.	7520-4	VI.

Table B.4. Data Dictionary for the 7520-4 Import Template

FIELD NAME	DESCRIPTION	SOURCE OF FIELD	FORM SECTION
PipeSev_QEL	Pipeline severance enforcement type. Enter "X" if this type of enforcement action was taken; otherwise, the field may be left blank.	7520-4	VI.
OtherEnforcement_QEL	Other type of enforcement action. Enter "X" if this type of enforcement action was taken; otherwise, the field may be left blank.	7520-4	VI.
OtherEnforcement_QEL_Specific	Description of other type of enforcement action (255 characters allowed)	7520-4	VI.
ComplianceAchieved	Date compliance achieved	7520-4	VII.

Appendix C: Description of Error Messages for the Import Function

The following table provides a list of all error messages that users may encounter when importing data into the UIC Data Application using the batch upload templates.

Table C.1. Description of error messages that users may encounter during data import into the UIC Data Application using batch upload templates.

BATCH UPLOAD TEMPLATE WHERE ERROR IS APPLICABLE	APPLICATION ERROR MESSAGE	EXPLANATION OF ERROR MESSAGE
All Templates	Invalid Primacy Agency Code	The Primacy Agency Code does not match the list of approved codes found in the application. Please see Appendix A of the User Manual for the list of codes.
All Templates	User does not have access to primacy agency	The user attempted to submit data for an agency for which they do not have privileges to submit data.
All Templates	Invalid Federal Fiscal Year	The user entered an incorrect value in the federal fiscal year field.
All Templates	Invalid Fiscal Quarter	The user entered an incorrect value in the fiscal year quarter field. Acceptable values include 1Q, 2Q, 3Q, or 4Q.
All Templates	Invalid EPA region for primacy agency	The user entered an incorrect value for the EPA Region where the primacy agency is located.
All Templates	Invalid State	The user entered an incorrect value for the state field. State names should be entered as the full name, not the two-character postal abbreviation.
All Templates	Primacy agency does not have to access to well classes in this state	The user attempted to submit data for well classes that the primacy agency is not authorized to implement.
All Templates	Invalid Tribe (BIA Code)	The user entered an incorrect Bureau of Indian Affairs code for a tribe.
All Templates	Tribe is not identified as having an injection well, contact EPA region	The user submitted data for a tribe that does not have injection wells.
All Templates	Primacy agency not authorized for tribal well classes	The user is not authorized to submit data for tribal programs.
All Templates	State or Tribe is required	The user must submit data in the state or tribe fields as appropriate.
All Templates	State or tribe should be provided, but not both	The user should submit data for either the state or tribe, as appropriate. Data should not be entered in both the state and tribe fields for a given record.

Table C.1. Description of error messages that users may encounter during data import into the UIC Data Application using batch upload templates.

BATCH UPLOAD TEMPLATE WHERE ERROR IS APPLICABLE	APPLICATION ERROR MESSAGE	EXPLANATION OF ERROR MESSAGE
Well Summary	Primacy agency does not have access to Class 1	The user is not authorized to submit well inventory data for Class 1 injection wells.
Well Summary	Primacy agency does not have access to Class 2	The user is not authorized to submit well inventory data for Class 2 injection wells.
Well Summary	Primacy agency does not have access to Class 3	The user is not authorized to submit well inventory data for Class 3 injection wells.
Well Summary	Primacy agency does not have access to Class 4	The user is not authorized to submit well inventory data for Class 4 injection wells.
Well Summary	Primacy agency does not have access to Class 5	The user is not authorized to submit well inventory data for Class 5 injection wells.
Well Summary	Primacy agency does not have access to Class 6	The user is not authorized to submit well inventory data for Class 6 injection wells.
Well Summary	Invalid Number in Class Summary	The user entered an incorrect value for summary well inventory.
Well Summary	Well Inventory dataset has Final status	The well inventory data may not be edited when the status is "Final." Please contact EPA to request changes to the data.
Well Specific	Well Type or Well Summary Class is required.	The user must enter appropriate values in either well type or a well summary class fields for well-specific inventory.
Well Specific	Invalid Well Type	The user entered an incorrect value in the well type field for well-specific inventory
Well Specific	Invalid Well Summary Class	The user entered an incorrect value in the well summary class field for well-specific inventory
Well Specific	Invalid well summary class for well type	The user entered a value in the well summary class field that is not compatible for the well type value entered. For example, if the user indicates well type is 5F, then the user must enter Class 5 as the well summary class.
Well Specific	Primacy agency does not have access to Class 1	The user is not authorized to submit well inventory data for Class 1 injection wells.
Well Specific	Primacy agency does not have access to Class 2	The user is not authorized to submit well inventory data for Class 2 injection wells.
Well Specific	Primacy agency does not have access to Class 3	The user is not authorized to submit well inventory data for Class 3 injection wells.
Well Specific	Primacy agency does not have access to Class 4	The user is not authorized to submit well inventory data for Class 4 injection wells.
Well Specific	Primacy agency does not have access to Class 5	The user is not authorized to submit well inventory data for Class 5 injection wells.
Well Specific	Primacy agency does not have access to Class 6	The user is not authorized to submit well inventory data for Class 6 injection wells.

Table C.1. Description of error messages that users may encounter during data import into the UIC Data Application using batch upload templates.

BATCH UPLOAD TEMPLATE WHERE ERROR IS APPLICABLE	APPLICATION ERROR MESSAGE	EXPLANATION OF ERROR MESSAGE
Well Specific	Well Inventory dataset has Final status	The well-specific inventory data may not be edited when the status is "Final." Please contact EPA to request changes to the data.
7520-1 through 7520-3	Well Class must be 1, 2D, 2R, 2H, 3, 4, or 5	The user must enter an acceptable value for the well class field. Acceptable values include 1, 2D, 2R, 2H, 3, 4, or 5.
7520-1 through 7520-3	Primacy Agency is not authorized for Class <CLASS NUMBER>	The user may not submit Form 7520 data for a well class not implemented by the primacy agency.
7520-1 through 7520-3	Column <COLUMN_NAME> must contain NA, U or numeric value	The Form 7520 field must contain values that are numbers, "NA," or "U."
7520-1 through 7520-3	AreaPermitNew > 0 then AreaWellNew must be > 0	The user must report at least one well in an area permit for a new wellfield if any area permits for new well fields are reported.
7520-1 through 7520-3	AreaPermitExist > 0 then AreaWellExist must be > 0	The user must report at least one well in an area permit for an existing wellfield if any area permits for existing well fields are reported.
7520-1 through 7520-3	Value in column RAIIREVIEW for class <CLASS NUMBER 1,3,4, or 5> is not allowed	The user may only report Class 2 wells in the field for number of rule-authorized Class 2 wells reviewed.
7520-1 through 7520-3	Value in column RAIIDEFICIENT for class <CLASS NUMBER 1,3,4, or 5> is not allowed	The user may only report Class 2 wells in the field for number of rule-authorized Class II wells reviewed that are found deficient.
7520-1 through 7520-3	MITRESOLVED must be between 0 and 100, or NA or U	The percent of mechanical integrity test violations resolved in 90 days must be a value between 0 and 100. If the program had no violations to resolve, the user should enter "NA." If the program does not track the mechanical integrity test violations resolved in 90 days, the user should enter "U."
7520-1 through 7520-3	Value in column INVOLUNTARYCLOSURE for class <CLASS NUMBER 1,2D,2R,2H, or 3> is not allowed	The user may only submit data on the number of involuntary well closures for Class 5 wells.
7520-1 through 7520-3	Value in column VOLUNTARYCLOSURE for class <CLASS NUMBER 1,2D,2R,2H, or 3> is not allowed	The user may only submit data on the number of voluntary well closures for Class 5 wells.

Table C.1. Description of error messages that users may encounter during data import into the UIC Data Application using batch upload templates.

BATCH UPLOAD TEMPLATE WHERE ERROR IS APPLICABLE	APPLICATION ERROR MESSAGE	EXPLANATION OF ERROR MESSAGE
7520-1 through 7520-3	7520-3 Section VI. Number of rule-authorized wells tested (B) must be equal to or less than total number of wells tested (A)	The number of rule-authorized wells receiving mechanical integrity tests should be a value no greater than the total number of wells tested. The total number of wells tested for mechanical integrity would include both rule-authorized and permitted wells. If a program tested only rule-authorized wells, then the number of rule-authorized wells receiving mechanical integrity tests would be equal to the total number of wells tested.
7520-1 through 7520-3	7520-3 Section VII. Total Remedial Actions (B) must be equal to or greater than the number of wells with remedial action (A)	The sum of all remedial actions identified in 7520-3 Section VII.B. should be no less than the number of wells with remedial actions, assuming at least one remedial action was performed on each well.
7520-1 through 7520-3	7520 dataset has Final status	The 7520 data may not be edited when the status is "Final." Please contact EPA to request changes to the data.
7520-4	Invalid Well Class	The user entered an incorrect value in the well class field for the 7520-4. Acceptable well class values on the 7520-4 include 1H for hazardous waste, 1M for municipal waste, 1I for industrial waste, 2R for enhanced recover, 2D for saltwater disposal, 2H for liquid hydrocarbon storage, 3, 4, or 5.
7520-4	Primacy Agency does not have access to Class <CLASS NUMBER>	The user may not submit Form 7520 data for a well class not implemented by the primacy agency.
7520-4	Operator State is invalid	The user must enter the two-character postal abbreviation for the state field in the Operator's address in the 7520-4.
7520-4	Violation date is required	The user must enter the date that the significant non-compliance violation was first identified.
7520-4	Violation type is required	The user must enter the type of significant non-compliance violation identified.
7520-4	Violation type must be specified via an X	The user must enter the type of significant non-compliance violation by enter an "X" on the 7520-4 batch upload template.
7520-4	Only one violation type can be specified	The user must enter each significant non-compliance violation on separate lines in the 7520-4 batch upload template.

Table C.1. Description of error messages that users may encounter during data import into the UIC Data Application using batch upload templates.

BATCH UPLOAD TEMPLATE WHERE ERROR IS APPLICABLE	APPLICATION ERROR MESSAGE	EXPLANATION OF ERROR MESSAGE
7520-4	Enforcement date exceeds reporting period end date of <MAX DATE>	The enforcement date for the significant non-compliance violation must not be later than the end of the fiscal year quarter in which the date is reported. For example, the first quarter of the fiscal year ends on December 31. The user may not report an enforcement date after December 31 if they are reporting 7520-4 data for the end of the first quarter.
7520-4	Enforcement Date must be in mm/dd/yyyy format	The user must report enforcement date numerically in the format of mm/dd/yyyy. For example, January 3, 2018, would be formatted as 01/03/2018.
7520-4	Enforcement date is prior to violation date.	The enforcement date of a significant non-compliance violation cannot be before the date of the violation.
7520-4	Violation Date must be in mm/dd/yyyy format	The user must report violation date numerically in the format of mm/dd/yyyy. For example, January 3, 2018, would be formatted as 01/03/2018.
7520-4	Compliance Achieved date is outside reporting period of <REPORTING_START> to <REPORTING_END>.	The date that compliance was achieved for a significant non-compliance violation must not be later than the end of the fiscal year quarter in which the date is reported. For example, the first quarter of the fiscal year ends on December 31. The user may not report a compliance achieved date after December 31 if they are reporting 7520-4 data for the end of the first quarter.
7520-4	ComplianceAchieved Date must be in mm/dd/yyyy format	The user must report compliance achieved date numerically in the format of mm/dd/yyyy. For example, January 3, 2018, would be formatted as 01/03/2018.
7520-4	Violation date exceeds date limit of <MAX DATE>.	Significant non-compliance violations that have not been resolved for two fiscal year quarters after the violation date should be reported on the 7520-4. For example, if a violation is reported during the fourth quarter, then the violation date must be no later than March 31--the end of the second quarter. The limits for violation date for each quarter are found in Table C.2.
7520-4	Enforcement type is required	The user must enter the type of enforcement action taken for the significant non-compliance violation identified.

Table C.2. Date limits for significant non-compliance violations reported on the 7520-4.

BATCH UPLOAD TEMPLATE WHERE ERROR IS APPLICABLE	APPLICATION ERROR MESSAGE	EXPLANATION OF ERROR MESSAGE
7520-4	Enforcement type must be specified via an X	The user must enter the type of enforcement action taken for significant non-compliance violation by enter an "X" on the 7520-4 batch upload template.
7520-4	Only one enforcement type can be specified	The user must enter each enforcement action taken for a significant non-compliance violation on separate lines in the 7520-4 batch upload template.
7520-4	7520-4 dataset has Final status.	The 7520-4 data may not be edited when the status is "Final." Please contact EPA to request changes to the data.
7520-4	ORA-00001: unique constraint (UICINV.UIC_7520_4_WELLS_UK1) violated	

Table C.2. Date limits for significant non-compliance violations reported on the 7520-4.

FISCAL YEAR QUARTER THAT SIGNIFICANT NON-COMPLIANCE VIOLATION IS REPORTED ON THE 7520-4	SIGNIFICANT NON-COMPLIANCE VIOLATION DATE REPORTED ON THE 7520-4 MUST BE NO LATER THAN THE FOLLOWING
First quarter, ending December 31	Third quarter of previous fiscal year, ending June 30
Second quarter, ending March 31	Fourth quarter of previous fiscal year, ending September 30
Third quarter, ending June 30	First quarter of current fiscal year, ending December 31
Fourth quarter, ending September 30	Second quarter of current fiscal year, ending March 31

Appendix D: Features Available to the EPA Regional UIC Staff

Some features are available only to EPA Regional users in the UIC Data Application. EPA Regions' needs differ from the relatively simple needs of a primacy program. EPA Regions will need to enter data for directly implemented programs, much like primacy programs. Unlike primacy programs, EPA Regions implement multiple programs, review primacy program data, and then forward both the Regional and primacy program data through the workflow process to EPA Headquarters.

The data import feature was initially developed to assist EPA Regions in efficiently entering data for the multiple programs they directly implement. The data import feature is discussed fully in the following sections of the User Manual: Importing Well Inventory Using Templates and Importing 7520 Data Using Templates.

Other features available only to the EPA Regions include the bulk status change feature and additional reports in the Reports module. A training video and presentation slides on using the bulk status change feature are included in the user support materials available on the UIC Data Application launch page and at the EPA UIC website listed in the section User Support Materials.

Bulk Status Change

The Bulk Status Change feature can be used to change the status of either single or multiple Well Inventory or 7520 forms at the same time. The feature can be used for promoting the status of a form in the workflow process. Only administrators may bulk change the status to "Final" or return a form to "Draft" or "Under EPA Review from the "Final" status. If the statuses of items are accidentally promoted incorrectly, contact an administrator to make the correction. EPA Regions will only have permissions to bulk status change forms for the primacy agencies within their Region's oversight.
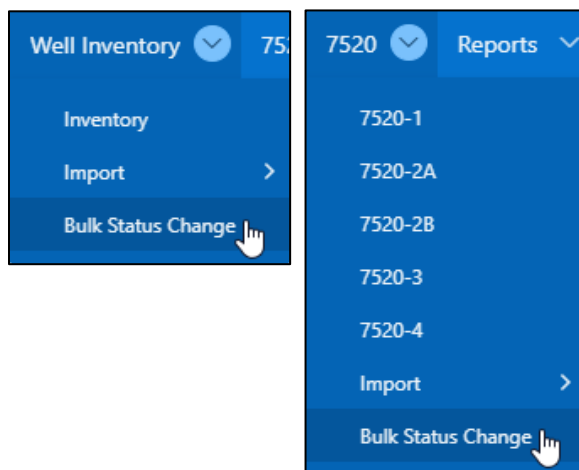
Figure D.1. The Bulk Status Change feature is available in the drop-down menu of the respective module.

To access the Bulk Status Change feature, users should select the "Bulk Status Change" from the drop-down menu of either the Well Inventory or 7520 module, as shown in Figure D.1. The bulk status changes are performed in three steps: Step 1. Filter; Step 2. Select Records; and Step 3. Change Status. The steps are reflected in the layout of the Bulk Status Change feature, as shown in Figure D.2.

Figure D.2. The Bulk Status Change feature allows the user the filter forms, select the desired forms from a list, and change the status of the form.

Figure D.2. The Bulk Status Change feature allows the user the filter forms, select the desired forms from a list, and change the status of the form.

Filter

The first step of the bulk status change process is filtering the data to choose specific data. The "Filter" section of the bulk status change feature provides three fields for users to select forms by Primacy Agency, Fiscal Year, and Current Status, as shown in Figure D.3. If further filtering is necessary, users may use the Actions drop-down menu or the search bar in the Select section to find more specific groups of records (Figure D.2).

Figure D.3. The filter step allows a user to filter by Primacy Agency, Fiscal Year, and Current Status.

Select

Once a user finds the appropriate forms, the forms must be selected to update. A checkbox is located to the left of each form listed in the data table in the Select section. The user should click on the checkbox to select the form(s) for bulk status change.

If the user wants to select all the forms listed in the data table, the user may click on the "Select All" checkbox located in the column heading above the checkboxes associated with individual forms, as shown in Figure D.4. "Select All" will check the boxes for every row *visible* in the data table.
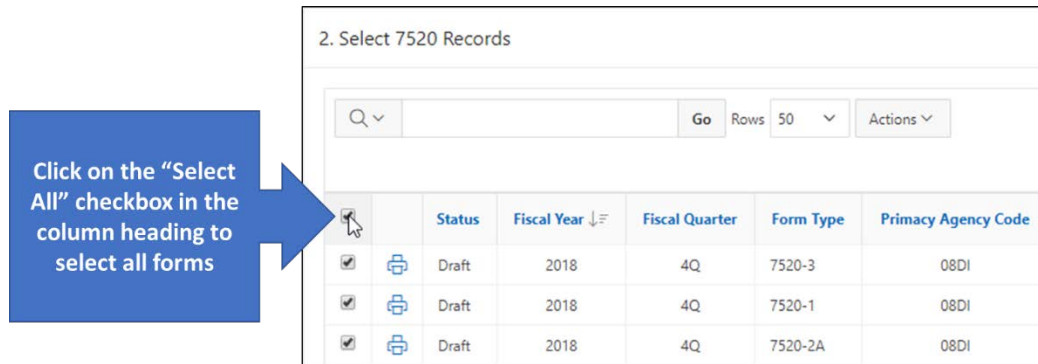
Figure D.4. Users may select all forms listed in the data table by clicking on the "Select All" checkbox in the column heading.

In some cases, users may have multiple pages in their data table depending on the number of records filtered in the first step. The default number of forms listed in the data table is set to 50 rows. The "Select All" checkbox will only check the boxes of the *visible* rows in the data table. For example, if the user filtered for 150 forms, the application will show 50 rows of forms by default and present the user with three pages of forms. If users need to select more than 50 rows of forms, they may click on the drop-down menu for "Rows," located between the search bar and "Actions" button, and change the number of rows shown in the data table, as shown in Figure D.5. Once all the forms are visible on one page, users may select all the forms using the "Select All" checkbox (Figure D.4).

Figure D.5. Users may change the number of rows shown in the Select data table by clicking on the drop-down menu for "Rows."

Change Status

Once the forms to change status have been checked, the user selects the new status to apply to the forms, as shown in Figure D.6. The status of an item can only be promoted one level at a time. For example, forms with "Draft" status can only be promoted to "Submit to Region" or "Submit to Headquarters," depending on whether the form originated with a primacy program or EPA Region. Subsequent items with "Under EPA Region Review" status can only be promoted to "Submit to Headquarters." Final step promotion of items with "Submitted to Headquarters" status can only be promoted to "Finalize" by users with Headquarters level permissions. The status of items can be demoted in the workflow process by an administrator.

In the "Email Recipients" field, users may enter email addresses of people to notify them of the bulk status change (Figure D.6). Users may enter comments or additional information in the "Comments" field (Figure D.6). Once ready to make the bulk status change, select the "Change Status" button. A warning will appear asking the user to confirm any changes made.

Figure D.6. In the Change Status step, users may select the status to promote the items, enter emails of people to be notified of the status changes, and enter notes or comments.

Figure D.6. In the Change Status step, users may select the status to promote the items, enter emails of people to be notified of the status changes, and enter notes or comments.

Submission Tracking Report

Certain reports in the UIC Data Application are only available to EPA Region UIC staff to provide methods of moderating submissions and a finer level of detail for user data, and this includes the Submission Tracking report.

The Submission Tracking report shows all users in order of the last time they logged in. The columns in the report include information on when the user last logged in, when the user last submitted a 7520 report, user information, and the primacy agencies to which the user has access. This could be used to monitor when the latest 7520 submission was made and to help identify which users with whom to directly communicate.
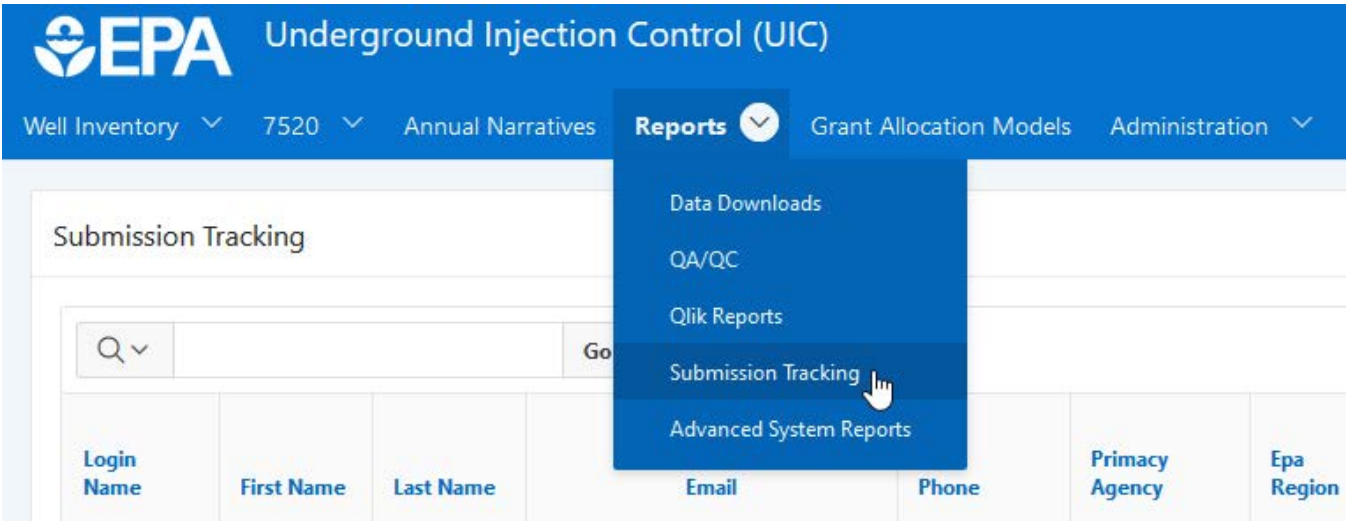
Figure D.7. The Submission Tracking report can be accessed from the Reports drop-down menu.

Table D.1. Data Dictionary for the Submission Tracking Report

FIELD NAME	DESCRIPTION
Login Name	The login name of the user. This is used as an identifier for who submitted inventory.
First Name	The user's first name.
Last Name	The user's last name.
Email	The user's email address. This is the same email that email notifications are sent to.
Phone	The user's phone number.
Primacy Agency	The primacy agency the user is associated with and can submit inventory for.
EPA Region	The EPA region the user's primacy agency falls within.
State	The State the user's primacy agency falls within.

FIELD NAME	DESCRIPTION
Access	The primacy agencies that the user has access to view. If the user has access to more than one, they are concatenated with ":"
EPA Reviewer	Whether or not the user is designated as an EPA reviewer.
Well Specific Access	Whether or not the user has access to the well specific inventories of the primacy agencies they have access to.
Last Login Date	The last login date of the user.
Last 7520 Submittal	The last submittal date of 7520 inventory report.

Advanced System Reports

The advanced system reports are available to EPA Region UIC staff and provide additional information on the backend of the UIC Data Application. These reports are intended to be used to understand how the UIC Data App is designed and built with Oracle's APEX front-end framework/database backend, the validation rules set in the data inventory input forms, and the error reports presented to users. The advanced system reports tables include the Table Columns Report, the Table Statistics Report, the Page Item Report, the Subscriptions Report, the Utilization Errors Report, and the Page Validations Report.
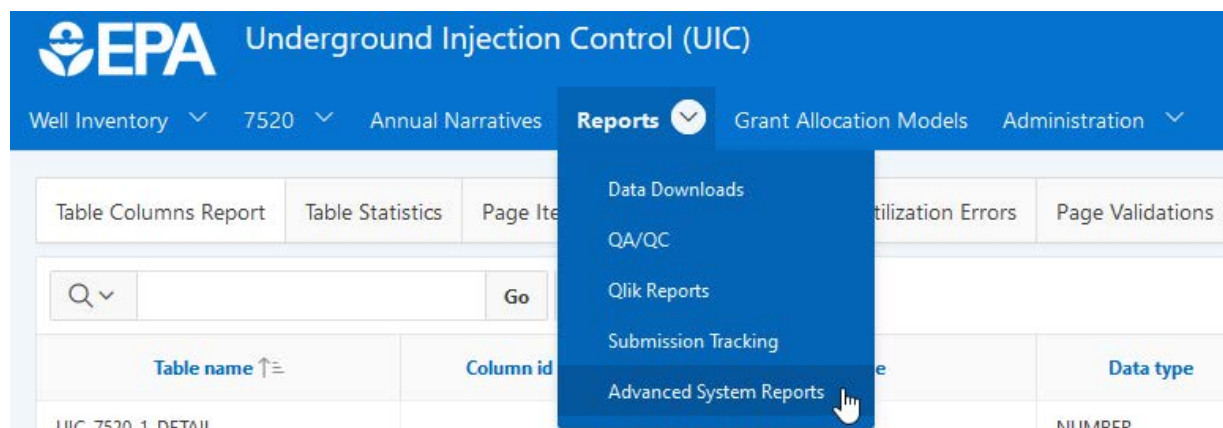
Figure D.8. Access the Advanced System Reports from the Reports drop-down menu

Table Columns Report

The Table Columns Report serves as a data dictionary of the data tables in the 7520 inventories with information on the data types and attributes of each column for the data tables.

Table D.2. Date Dictionary for the Table Columns Report

FIELD NAME	DESCRIPTION
Table name	The name of the table the column belongs to.
Column id	A sequential numerical ID for the column number of the associated table. The column ID starts at 1 for each table.
Column name	The name of the column.

Table D.3. Data Dictionary for the Table Statistics Report

FIELD NAME	DESCRIPTION
Data type	The data type of the column values. NUMBER, VARCHAR2
Char length	The character length allowed in the column field. Number data types will show a char length of 0.
Nullable	Whether or not the field can be left blank (i.e. contain a null value).

Table Statistics

The Table Statistics report provides information on the UIC Data Application data tables and their backend database characteristics.

Table D.3. Data Dictionary for the Table Statistics Report

FIELD NAME	DESCRIPTION
Table name	The name of the table.
Status	Indicating if the table is valid or not
Num rows	The number of rows in the table
Blocks	The units of memory blocks occupied by the table in the Oracle Database.
Avg row len	The average row length
Last analyzed	The date the data table was last analyzed for table statistics. If the table has been updated since the last analyzed date, the table statistics will not be accurate.

Page Item Report

The Page Item Report provides details on all the UI elements in the UIC Data Application pages.

Table D.4. Data Dictionary for the Page Item Report

FIELD NAME	DESCRIPTION
Application name	The name of the Oracle APEX application.
Page id	The ID of the application page.
Page name	The name of the application page.
Region	The region of the application.

FIELD NAME	DESCRIPTION
Item name	The name of the application page item. Each item name represents an object on the page.
Display as	The object display type of the page item.
Display sequence	The sequential order of the page item as it appears on the page.
Item label	The name of the item as seen on the web page.
Db column name	The source column name in the backend database that populates the page item data.
Db table name	The source table name in the backend database that contains the column that populates the page item data.

Subscriptions

The Subscriptions report provides details on the email subscriptions that are sending email notifications to users.

Table D.5 Data Dictionary for the Subscriptions Report

FIELD NAME	DESCRIPTION
Application id	The ID of the application the user is subscribed to.
Page id	The ID of the page the user is receiving email subscriptions on.
Owner	The username that they subscription is being sent to.
Email from	The text used in the notification email text stating who sent the email.
Email subject	The subject line of the email notification sent to the user.
Email address	The user's email address the email notifications are being sent to.
Start date	The date the subscription started sending emails.
End date	The date the subscription stopped sending emails.
End day	The day of the week the email subscription ended.
Notify interval	How often the email subscription is sent.
Created on	The date the subscription was created.

Table D.6. Data Dictionary for the Utilization Errors Report

FIELD NAME	DESCRIPTION
Created by	The username that created the subscription.
Last updated on	The date the subscription was last updated.
Last updated by	The user that updated the subscription on the last updated date.

Utilization Errors

The Utilization Errors report provides details on system errors that the UIC Data Application has presented to users. These are errors caused by the user that the UIC Data Application is able to track and report but do not include bugs or design flaws in the application.

Table D.6. Data Dictionary for the Utilization Errors Report

FIELD NAME	DESCRIPTION
Application name	The Oracle APEX application name for the version of the UIC Data App that the error occurred on.
Apex user	The name of the Oracle APEX user that experienced the error.
Page name	The name of the application page that the error occurred on.
View date	The date that the error occurred.
Seconds ago	The number of seconds since the error occurred.
Error message	The error message that was presented to the user.
Application info	Information on the application during the error.

Page Validations

The Page Validations report shows all the page validations that are written in the various pages of the UIC Data Application.

Table D.7. Data Dictionary for the Page Validations Report

FIELD NAME	DESCRIPTION
Application name	The Oracle APEX application name for the version of the UIC Data App that the page validation rule is associated with.
Page name	The name of the application page that the validation is applied to.

FIELD NAME	DESCRIPTION
Validation name	The title of the validation rule.
Validation sequence	The order in which the validation is performed. The validation sequence of each page starts at 1.
Validation type	The type of validation rule being performed on the page.
Validation type code	The code representing the validation rule type.
Validation expression1	The expression of the item to validate.
Validation expression2	The expression of values to validate Validation expression1 against.

Appendix E: Features Available to EPA Headquarters

Reports

Submission Tracking Report

The Submission Tracking Report shows all users in order of the last time they logged in. The columns in the report include information on the following: when the user last logged in, when the user last submitted a 7520 report, user information, and the primacy agencies the user has access to. This report could be used to monitor when the latest 7520 submission was made and to help identify which users to directly communicate with.

Table E.1. Data Dictionary for the Submission Tracking Report

FIELD NAME	DESCRIPTION
Login Name	The login name of the user. This is used as an identifier for who submitted inventory.
First Name	The user's first name.
Last Name	The user's last name.
Email	The user's email address. This is the same email that email notifications are sent to.
Phone	The user's phone number.
Primacy Agency	The primacy agency the user is associated with and can submit inventory for.
EPA Region	The EPA region the user's primacy agency falls within.
State	The State the user's primacy agency falls within.
Access	The primacy agencies that the user has access to view. If the user has access to more than one, they are concatenated with "::"
EPA Reviewer	Whether or not the user is designated as an EPA reviewer.
Well Specific Access	Whether or not the user has access to the well specific inventories of the primacy agencies they have access to.
Last Login Date	The last login date of the user.
Last 7520 Submittal	The last submittal date of 7520 inventory report.

Advanced System Reports

The advanced system reports are available to EPA Headquarters staff and provide additional information on the backend of the UIC Data Application. These reports are intended to be used to understand how the UIC Data App is designed and built with Oracle's APEX front-end framework/database backend, the validation rules set in the data inventory input forms, and the error reports presented to users. The advanced system reports tables include the Table Columns Report, the Table Statistics Report, the Page Item Report, the Subscriptions Report, the Utilization Errors Report, and the Page Validations Report.

Table Columns Report
The Table Columns Report serves as a data dictionary of the data tables in the 7520 inventories with information on the data types and attributes of each column for the data tables.

Table E.2. Date Dictionary for the Table Columns Report

FIELD NAME	DESCRIPTION
Table name	The name of the table the column belongs to.
Column id	A sequential numerical ID for the column number of the associated table. The column ID starts at 1 for each table.
Column name	The name of the column.
Data type	The data type of the column values. NUMBER, VARCHAR2
Char length	The character length allowed in the column field. Number data types will show a char length of 0.
Nullable	Whether or not the field can be left blank (i.e. contain a null value).

Table Statistics
The Table Statistics report provides information on the data tables and their backend database characteristics.

Table E.3. Data Dictionary for the Table Statistics Report

FIELD NAME	DESCRIPTION
Table name	The name of the table.
Status	Indicating if the table is valid or not
Num rows	The number of rows in the table
Blocks	The units of memory blocks occupied by the table in the Oracle Database.
Avg row len	The average row length

FIELD NAME	DESCRIPTION
Last analyzed	The date the data table was last analyzed for table statistics. If the table has been updated since the last analyzed date, the table statistics will not be accurate.

Page Item Report

The Page Item Report provides details on all the UI elements in the UIC data application pages.

Table E.4. Data Dictionary for the Page Item Report

FIELD NAME	DESCRIPTION
Application name	The name of the Oracle APEX application.
Page id	The ID of the application page.
Page name	The name of the application page.
Region	The region of the application.
Item name	The name of the application page item. Each item name represents an object on the page.
Display as	The object display type of the page item.
Display sequence	The sequential order of the page item as it appears on the page.
Item label	The name of the item as seen on the web page
Db column name	The source column name in the backend database that populates the page item data.
Db table name	The source table name in the backend database that contains the column that populates the page item data.

Subscriptions

The Subscriptions report provides details on the email subscriptions that are sending email notifications to users.

Table E.5. Data Dictionary for the Subscriptions Report

FIELD NAME	DESCRIPTION
Application id	The ID of the application the user is subscribed to.
Page id	The ID of the page the user is receiving email subscriptions on.

Table E.6. Data Dictionary for the Utilization Errors Report

FIELD NAME	DESCRIPTION
Owner	The username that they subscription is being sent to.
Email from	The text used in the notification email text stating who sent the email.
Email subject	The subject line of the email notification sent to the user.
Email address	The user's email address the email notifications are being sent to.
Start date	The date the subscription started sending emails.
End date	The date the subscription stopped sending emails.
End day	The day of the week the email subscription ended.
Notify interval	How often the email subscription is sent.
Created on	The date the subscription was created.
Created by	The username that created the subscription.
Last updated on	The date the subscription was last updated.
Last updated by	The user that updated the subscription on the last updated date.

Utilization Errors

The Utilization Errors report provides details on system errors that the UIC Data Application has presented to users. These are errors caused by the user that the UIC Data Application is able to track and report but does not include bugs or design flaws in the application.

Table E.6. Data Dictionary for the Utilization Errors Report

FIELD NAME	DESCRIPTION
Application name	The Oracle APEX application name for the version of the UIC Data App that the error occurred on.
Apex user	The name of the Oracle APEX user that experienced the error.
Page name	The name of the application page that the error occurred on.
View date	The date that the error occurred.

FIELD NAME	DESCRIPTION
Seconds ago	The number of seconds since the error occurred.
Error message	The error message that was presented to the user.
Application info	Information on the application during the error.

Page Validations

The Page Validations report shows all the page validations that are written in the various pages of the UIC Data Application.

Table E.7. Data Dictionary for the Page Validations Report

FIELD NAME	DESCRIPTION
Application name	The Oracle APEX application name for the version of the UIC Data App that the page validation rule is associated with.
Page name	The name of the application page that the validation is applied to.
Validation name	The title of the validation rule.
Validation sequence	The order in which the validation is performed. The validation sequence of each page starts at 1.
Validation type	The type of validation rule being performed on the page.
Validation type code	The code representing the validation rule type.
Validation expression1	The expression of the item to validate.
Validation expression2	The expression of values to validate Validation expression1 against.

GAM

The UIC Grant Allocation Model (GAM) Module in the UIC data application is used to create models that allocate State and Tribal Assistance Grant (STAG) funds among U.S. states, territories, Indian tribes, and EPA Regions for the oversight of injection well activities. These activities can include the operation, construction, permit granting, and closing of injection wells. The fundamentals for allocating funds to implement the UIC Program across the United States are available in UIC Guidance 42, the UIC Program Grants Implementation Guidance, effective 1985. In essence, grant funds are allocated on the basis of "the state's population, geographic area, extent of underground injection practices, and other relevant factors." Please note that EPA HQ maintains a separate user manual describing the details of the GAM module in further detail.

The GAM module allows a user to create a new grant allocation model or edit previous grant allocation models. Select the "New Grant Allocation Model" button, shown in Figure E.1, to create a new Grant Allocation Model.
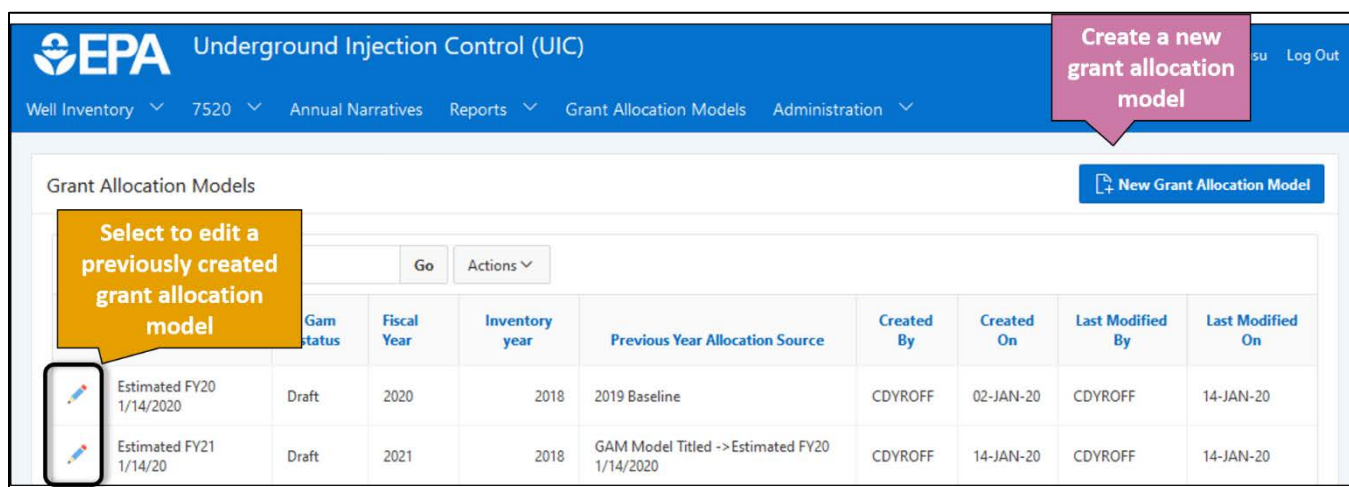

Figure E.1. The Grant Allocation Model module can be used to create or edit saved grant allocation models.

A grant allocation model is created by using, base assumption budget values and model parameters, the financing priority weights of the allotment factors, the state and/or tribal well count data to base the model on, and the previous year allocation.

Base Assumption

To run the UIC GAM module, the user must do the following.

1. Select a *Title* for the Grant Allocation Model being created.
2. Select the *Status* of the model (i.e., Draft, Final, Preliminary, or Tentative).
3. Select the *Fiscal Year* being modeled.
4. Select the *Inventory Import Year*. Only time periods with the appropriate data available can be selected.
5. Select the *Previous Allocation Baseline*.
6. Determine if well inventory data are available for the appropriate time period by selecting the Fiscal Year to model, the Inventory Import Year the model will be derived from, and a Previous Allocation Source (Previous GAM).
7. Set the Base Assumptions and Allotment Factors.
8. Import State & Tribe Data, Import Previous Year Allocation.
9. Run the GAM.
10. View and print the reports after running the GAM.

A GAM run can take one of four different statuses:

- Draft Status- This status is used when the GAM run is in progress, incomplete, or for testing purposes. The UIC Data Application does not limit the number of draft GAM runs. When ready, staff can change the status of a draft GAM run at any time to preliminary, tentative, or final.
- Preliminary Status- This status is used when EPA HQ runs the GAM to provide allocation estimates to the regions based on an unofficial, often arbitrary estimate for the total appropriation. Preliminary allocations are sometimes sent out after multiple Continuing Resolutions are passed and there is not a full-year budget. The UIC Data Application does not limit the number of preliminary GAM runs.
- Tentative Status- This status is used when EPA HQ runs the GAM to provide allocation estimates to the regions based on an estimate for the total appropriation provided by the OGWDW front office. Tentative allocations are sometimes sent out after multiple Continuing Resolutions are passed and there is not a full-year budget. The UIC Data Application does not limit the number of tentative GAM runs.
- Final Status- This status is used for the official GAM run for a given fiscal year. The UIC Data Application only allows one final GAM run per fiscal year.

Figure E.2. The initial Base Assumptions tab of a GAM allows you to enter base assumption budget values and model parameters.

State Data

Once the GAM base assumptions and well inventory data have been imported, validate the state data to be used in the GAM by selecting and viewing the "State Data" tab shown in Figure E.3. This view can be filtered and sorted the same way well inventory data tables can.

Figure E.3. The State Data tab in the GAM module is used to view the State well counts imported from the State and Tribe Data import.

Figure E.3. The State Data tab in the GAM module is used to view the State well counts imported from the State and Tribe Data import.

Tribe Data

Once the GAM base assumptions and well inventory data have been imported, validate the state data to be used in the GAM by selecting and viewing the "State Data" tab shown in Figure E.4. This view can be filtered and sorted the same way well inventory data tables can.

Figure E.4. The Tribe Data tab in the GAM module is used to view the Tribe well counts imported from the State and Tribe Data import.

State Allocation

Once the GAM has been run by selecting the "Run GAM" button, select the "State Allocation" tab to view the results for state allocations. Funding for each state is broken down by well type and by program. The final column shows the final allocation. These allocations cannot be edited unless you go back to the Base Assumptions tab and modify the GAM parameters.

Figure E.5. The State Allocation tab in the GAM module is used to view the State grant allocation once the GAM has been run.

Tribe Allocation

Once the GAM has been run by selecting the "Run GAM" button, select the "Tribe Allocation" tab to view the results for tribal allocations. Funding for each state is broken down by well type and by program. The final column shows the final allocation. These allocations cannot be edited unless you go back to the Base Assumptions tab and modify the GAM parameters.

Figure E.6. The Tribe Allocation tab in the GAM module is used to view the Tribal grant allocation once the GAM has been run.

E-8

For Printing

For printing the GAM, there are four reports. "UIC Final Program Grant Allocation" for the modeled year, "UIC Program Grant Allocation" for the baseline year, the FY difference between the modeled year and the baseline year, and the grant allocation by EPA Region. Select a report from the drop-down menu in Figure E.7 and select "Print."

Figure E.7. The For Print tab can be used to print the GAM in different reports.

The reports available for printing are pre-set and cannot be modified. Custom reports also cannot be made for printing. The table cells can be highlighted, copied, and pasted into an Excel sheet and formatted from there as you like.

Administration

The Administration drop-down menu is available to EPA Headquarters users to facilitate the management of the UIC Data Application data and user settings.

User Management

The user management tool provides details on all UIC Data Application users. While some of the user information is required for each account, many fields are blank on new accounts until users fill in the fields themselves (e.g., email and job title).

Table E.8. Data Dictionary for the User Management administration tool

FIELD NAME	DESCRIPTION
User ID	The UIC Data App user's user ID. This is the same as the user's login name.
Role	The role of the UIC Data App user. This dictates what content and features the user has access to.
Primacy Agency Code Access	The list of primacy agencies whose data the user has access to and perform actions on the behalf of. "All" indicates that the user has access to all primacy agencies.
First Name	The first name of the user.
Last Name	The last name of the user.
Job Title	The job title of the user. This field is not required and is set by the user.
Email	The email of the user. This is the email used for email notifications.
Phone	The phone number of the user. This field is not required and is set by the user.
Address	The address of the user. This field is not required and is set by the user.
EPA Reviewer	Whether or not the user has the role and permission of an EPA Reviewer.
Well Specific Access	Whether or not the user has access to well specific data tables.
Last Login Date	The date and time the user last logged in to the UIC Data App.

User Access Log

The User Access Log tool provides details on when users have signed in to the UIC Data Application.

Table E.9. Data Dictionary for the User Access Log administration tool

FIELD NAME	DESCRIPTION
User ID	The UIC Data App user's user ID. This is the same as the user's login name.
First Name	The first name of the user.

FIELD NAME	DESCRIPTION
Last Name	The last name of the user.
Primacy Agencies	The list of primacy agencies whose data the user has access to and perform actions on the behalf of. "All" indicates that the user has access to all primacy agencies.
Role	The role of the UIC Data App user. This dictates what content and features the user has access to.
Login Date	The date and time the user last logged in to the UIC Data App.

Primacy Agencies

The Primacy Agencies tool provides an editable list of all primacy agencies in the UIC Data Application and can be added to or modified.

Table E.10. Data Dictionary for the Primacy Agencies administration tool

FIELD NAME	DESCRIPTION
Primacy Agency Code	The four-character code used to identify the primacy agency. This is how the primacy agency is identified in the other administration tools and user reports.
Primacy Agency	The full name of the primacy agency.
State	The state name the primacy agency operates within. If the primacy agency is overseeing tribal groups, the value will be "Tribal."
Region	The region the primacy agency operates within.
Address	The address of the primacy agency headquarters.

State Data

The State Data tool provides an editable list of all states in the UIC Data Application and can be added to or modified.

Table E.11. Data Dictionary for the State Data administration tool

FIELD NAME	DESCRIPTION
Code	The two-letter abbreviation for the state.
State	The full name of the state.
EPA Region	The EPA region that state is associated with.

Table E.12. Data Dictionary for the Tribe Data administration tool

FIELD NAME	DESCRIPTION
Population	The population of the state rounded to the nearest thousand.
Area	The total land area of the state in square miles.
Frozen Class V Wells (GAM Code)	The number of Class V wells in the state based on the count of Class V wells from 1993. This value is an alternative to the current Class V well inventory count when running the Grant Allocation Module.
Primacy 1422 (GAM Code)	Indicates the primacy status under Section 1422. "0" indicates that the EPA Region is responsible for direct implementation. "1" indicates that the state or territory has primacy under Class I, III, IV, and V wells under section 1422. "2" indicates that the state or territory has primacy over Class I to V wells under section 1422.
Primacy 1425 (GAM Code)	Indicates the primacy status under Section 1425. "0" indicates that the EPA Region is responsible for direct implementation. "1" indicates that the state or territory has primacy under Class II wells under section 1425.
Primacy Class VI (GAM Code)	Indicates the primacy status of Class VI wells. "0" indicates that the EPA Region is responsible for direct implementation. "1" indicates that the state or territory has primacy under Class VI wells.

Tribe Data

The Tribe Data tool provides an editable list of all tribes in the UIC Data Application and can be added to or modified.

Table E.12. Data Dictionary for the Tribe Data administration tool

FIELD NAME	DESCRIPTION
BIA Code	The three-digit Bureau of Indian Affairs code for the tribe.
EPA Tribal ID	The nine-digit EPA code for the tribe.
Tribe	The full name of the tribe.
EPA Region	The EPA Region the tribe is associated with.
State	The state that the tribe is associated with.
Population	The population of the tribe.
Area	The area of the tribe's designated area in square miles.
Has Injection Wells?	Whether or not the tribe has injection wells.
Include in GAM?	Whether or not the tribe is included in the Grant Allocation Module.

Settings

The Settings tool provides an editable list of the fields used in the 7520 input forms in the UIC Data Application and can be added to or modified.

Table E.13. Data Dictionary for the Settings administration tool

FIELD NAME	DESCRIPTION
Settings	The section of the application the text field appears on.
Code	The name of the field used in the Oracle Application Express codebase.
Value	The data value typically representing the text seen by the user.
Value 2	The alternate data value that is typically not seen by the user.
Order	The order text field appears within the section identified by the Setting value.
Group	The group the field belongs to if the section of the application is broken into separate sections.

Email Users

The Email Users tool serves as a directory of the UIC Data Application users and allows you to easily generate an email to send to all selected recipients. Select the checkmarks to the left of the target users and select the "Generate Email Link" button as show in Figure E.8.

Figure E.8. Select the checkboxes next to the email recipients and then select Generate Email Link

E-13

Figure E.9. Select "here" in the pop-up to open your computer's native email client with the email pre-filled with the contacts selected

A pop-up window will appear; click "here," shown in Figure E.9, to open your email client with the email pre-filled with the selected contacts in the BCC field.
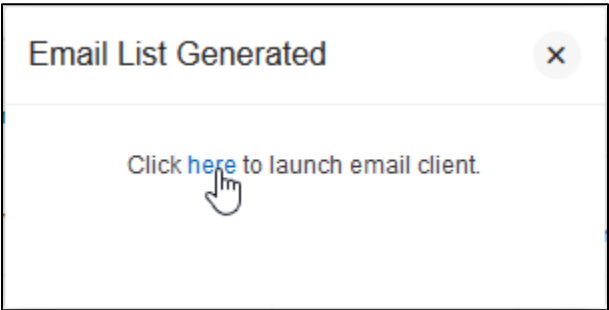

Figure E.9. Select "here" in the pop-up to open your computer's native email client with the email pre-filled with the contacts selected

Table E.14. Data Dictionary for the Email Users administration tool

FIELD NAME	DESCRIPTION
First Name	The first name of the user.
Last Name	The last name of the user.
Email	The email of the user.
User ID	The UIC Data App user's user ID. This is the same as the user's login name.
Role	The role of the UIC Data App user. This dictates what content and features the user has access to.
Primacy Agency Access	The list of primacy agencies whose data the user has access to and perform actions on the behalf of. "All" indicates that the user has access to all primacy agencies.