Updating Excel Templates from MSC-LIMS v4 to MSC-LIMS v5 & J Street LIMS v6

You must update your custom Excel templates as part of migrating to a new version of the LIMS software.

This is a technical process that requires careful attention to detail and experience editing VBA code. If you are not comfortable editing VBA code, we highly recommend working with J Street LIMS support to upgrade your custom Excel templates.

The exact steps may vary among templates. The goal of this document is to provide all the possible changes that MAY be necessary to upgrade a custom Excel template. Not all steps will be required for every template.

A small number of highly-customized templates may require more extensive changes beyond what is outlined here. This applies to only 1-2% of templates based on our experience with other customers. Such work would be billed hourly, but only after getting your approval first.

If you have Full System Licenses to MSC-LIMS and have customized your LIMS database or application (outside of Excel templates), your templates will likely need additional changes beyond what's included in this document. If this applies to you and you have not already, contact J Street LIMS support for further assistance.

When upgrading MSC-LIMS Excel templates from MSC-LIMS v4 to J Street LIMS v6, some of the changes will depend on the version of Microsoft Access you will be using. This document will cover the most common changes that are required in Access 2010, then again for Access 365. In complex templates you may have to copy VBA code from the example templates that are added to your system when you install a newer LIMS application. To determine whether any VBA code in your custom templates must be updated, please reference the chart in the "Example Templates" section below.

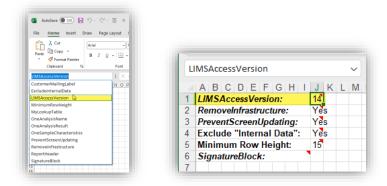
If copying VBA code from example templates is required, J Street recommends either installing the upgraded application or downloading the file "J Street LIMS v6 Excel Example Templates.zip" from our J Street LIMS Knowledge Base in order to access these example templates. In extreme cases it may be easier to copy your 'report worksheet' to the example template and adjust your field names to match the newer version.

IMPORTANT: Any updates made to your templates will make them incompatible with your current MSC-LIMS software. Before making any changes to your templates or the example templates, make copies of each template you're working with and save them to a folder you can work out of, while preserving the original templates.

Find LIMS Access Version

Open your first template that needs to be updated. "LIMSAccessVersion" is a named range for the Access Version on the Settings worksheet. To quickly find if there is a version named range, click the down arrow in the Name Box at the top left of the screen. Scan down the list until you find LIMSAccessVersion. When you select it, Excel will take you to the named cell.

NOTE: If "LIMSAccessVersion" does not appear in the Name Box, then there is nothing to update for this step and you may proceed to the "Update References" step below.



***If Access 2010: No change if the version number is 14. ***Access 365: Change the version number from 14 to 16.

Update References

References are code libraries that Excel pulls code from for specific uses. If you are not in the code window, press Alt + F11 to go to the code window. Once there, from the menu click Tools > References... to view the current references. To remove a reference uncheck the box in front of the reference. To add a reference scroll down the list of references and check the box in front of the reference to be added.



For Access 2010 the references should look like:

	es:			OK
Microsoft Forms Microsoft Access Microsoft DAO AccessibilityCpl AccessibilityCpl ActiveMovie cor AMT_COM_Inte AP Client 1.0 He AP Client 1.0 Ty AppIdPolicyEng	14.0 Object Library 2.0 Object Library s 14.0 Object Library Si Object Library Admin 1.0 Type Library throl type library riface 1.0 Type Library IpPane Type Library		Priority	Cancel Browse Help
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vailable References:		ОК
✓ Visual Basic For Applications ✓ Microsoft Excel 16.0 Object Library ✓ Microsoft Office 16.0 Access database engine Object ✓ OLF Automation		Cancel
Microsoft Access 16.0 Object Library Microsoft Office 16.0 Object Library Wicrosoft Forms 2.0 Object Library VBAProject AccessibilityCpIAdmin 1.0 Type Library ACE Image Support Data System Object Library Vers	▲ Priority	Help
ACEXMensurationLib ACExRasterSupportSLib Active DS Type Library Active Movie control type library		
Microsoft Office 16.0 Object Library		
Location: C:\Program Files\Common Files\Microso	ft Shared\(DFFICE16VM

For Access 365 the references should look like:

Add new VBA Function: WhereFormUserComputer()

Open the VBA Editor by pressing Alt + F11. Double-click on the LIMSData worksheet from the Project Explorer on the left side of the code window.

Copy and paste the following code at the bottom of the LIMSData code module (the main code window):

Public Function WhereFormUserComputer(db As Database, Optional sFormName As String = "") As String

```
' Build a WHERE clause for table SampleQuerySelect
    On Error GoTo WhereFormUserComputerErr
    Dim rs As Recordset
    Dim sSQL As String, sWhere As String
    sSQL = "SELECT CurrentLimsUser() AS UserName, ComputerName() AS ComputerName FROM SystemConfiguration;"
    Set rs = db.OpenRecordset(sSQL, dbOpenSnapshot)
    If rs.BOF And rs.EOF Then
        WhereFormUserComputer = ""
   Else
        sWhere = ""
        If Len(sFormName) > 0 Then
            sWhere = "FormName = '" & sFormName & "' AND "
        Else
            sWhere = "FormName = '" & IIf(InStr(db.Name, "LimsMapi"), "LimsMapi", "frmSampleSummarySetup") & "' AND "
        End If
        sWhere = sWhere & "UserName = '" & rs!UserName & "' AND ComputerName = '" & rs!ComputerName & "'"
        WhereFormUserComputer = sWhere
    End If
    Exit Function
WhereFormUserComputerErr:
    MsgBox "Error " & Err.Number & " in WhereFormUserComputer: " & Err.Description, vbCritical, ActiveWorkbook.Name
    Exit Function
```

End Function

Check for VBA Code That May Need Updating

When migrating from v4 to v5/v6, search the VBA code from the Excel template's LIMSData worksheet. It is highly important that you test your custom Excel templates with your upgraded LIMS software before moving to production, <u>as below is not an exhaustive list of VBA Code that may need to be updated</u>. If you encounter issues or error messages during testing, please contact J Street LIMS Support so we can evaluate if there is additional VBA Code that may need updating. Because custom templates have often been modified by LIMS clients, we can't account for all possible scenarios in these instructions.

If you have Full System Licenses to MSC-LIMS and have customized your LIMS database or application (outside of Excel templates), your templates will likely need additional changes beyond what's included in this document. If this applies to you and you have not already, contact J Street LIMS support for further assistance.

IMPORTANT: If you do have to update the VBA Code in your template, you should recompile after EACH step by clicking Debug > Compile VBAProject from the Main Menu. This will alert you to any typos or issues with your copied code. **ALSO**, if you copy and paste from this Word document, you will have to replace the double quotes, since Word's quote formatting will cause an error.

To open the VBA editor, press Alt + F11. Change the following in the VBA code:

Add dbSeeChanges to all OpenRecordSet Method Calls

Change: Set rs = db.OpenRecordSet (sSQL, dbOpenDynaset, dbOpenSnapShot)

To: Set rs = db.OpenRecordSet (sSQL, dbOpenDynaset, dbOpenSnapShot, <u>dbSeeChanges</u>)

Then recompile. From the menu, select Debug > Compile VBAProject.

Replace WHERE SampleID IN... with WhereFormUserComputer

Change: "WHERE Sample.SampleID IN (SELECT SampleID FROM sysSampleSUmmarySelect WHERE Selected=True) " & sInternalData & _

To: WHERE " & WhereFormUserComputer(db) & sInternalData & _

Then add Rpt to qrySampleSummaryAnalysis in the FROM clause

Change: "FROM qrySampleSummaryAnalysis " &

To: "FROM qrySampleSummaryAnalysisRpt " &

Then recompile. From the menu, select Debug > Compile VBAProject.

Change sysSampleSelect to SampleQuerySelect:

Either from the Menu Edit > Find or pressing Ctrl + F. Enter sysSampleSelect in the Find What text box and click Find Next:

ind	×	
Eind What: sysSampleSelect Search Direction: All Current Procedure Find Whole W Current Module Find Whole W Qurrent Project Match Cage Selected Text Use Pattern N	Replace	<pre>sSQL = "SELECT SampleID " & "SELECT SampleSelect "FROM sysSampleSelect "WHERE FormName = 'frmResultsByAnalyteSetup' AND Selected=True " & "ORDER BY SampleID;"</pre>

Replace sysSampleSelect with SampleQuerySelect. Then recompile from the Menu by clicking Debug > Compile VBAProject.

Change sysSampleSummarySelect to qrySampleSummaryAnalysis:

Either from the Menu, click Edit > Find or press Ctrl + F. Enter "sysSampleSummarySelect" in the Find What text box and click Find <u>Next</u>:

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	leSummarySelect 🗸 🗸	Find <u>N</u> ext
Search O Current <u>P</u> rocedure	Direction: All ~	Cancel
Current Module	Find Whole Word Only	
O Current Project	Match Cage	Replace
O Selected Text	Use Pattern Matching	Help



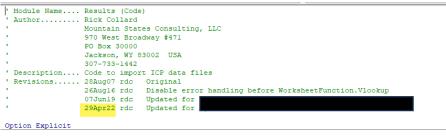
At this point you will have to compare your VBA code in your old templates with the code in the new Example Templates. With each new LIMS version, the example templates had small changes to certain functions in their VBA code. In order to update your templates for your new LIMS version, those functions must be updated to align with the example templates of the version you're upgrading to.

- Start by identifying the example template that most closely matches your custom template.
 - Your template may have the same name as the example template.
 - You may have to refer to the 'Read Me' tab to narrow down which example template to use.
 - Another aid to finding the correct Example Template is to match the tabs of your template to the tabs in the Example Templates, then refer to the Read Me text for more details.
- Further down in the Example Templates section of this document, there is a table listing the Example Templates that you can match your template's name to for code comparison.
 - In some cases, you may only have to change a query name, but in others you should copy the sample's entire SQL statement and replace the code in your template at a minimum.
 - If there are extensive changes you will need to decide if it is easier to copy your 'report' worksheet to a copy of the example template and then make changes to your report's fields.

Templates with more worksheets than the LIMSData worksheet

The following may not be necessary for your template updates. If your template has Code Modules other than the LIMSData module (for example, templates with charts or graphs), you will need to further review the code and see if it needs to be updated in your template.

For the template that is being updated, if it has more than just the LIMSData worksheet that has a code module, for each worksheet's VBA code note the last update date at the top of the VBA screen. In the screenshot below the comments are for the Worksheet 'Results' VBA code module.



Public Sub cmdImportInstrumentFile Click()

Navigate to where **J Street LIMS v6 Excel Example Templates.zip** is saved. Find the v6 version of the template you're updating in the folder you saved it in and open it. Now, open the template you're updating side by side to the v6 version. In both templates, go to the Worksheet tab and open the VBA window to check the **Revisions** (AKA the last Change Dates).

IMPORTANT: If you **do not** see additional Revisions/Change Date entries following the template's Original published date, copy the v6 template's code and replace the old code in the template being updated. If you **do** see additional Revisions/Change Date entries following the Original published date, STOP what you are doing, save your progress, and contact our Support team Support@JStreetLIMS.com. This indicates you have additional VBA code customizations in your template, and replacing this code will get rid of your customizations. J Street may need to charge for "white glove" template updates to preserve these customizations.

If there were no additional Revisions/Change Dates and you were able to copy the v6 template's code and replace the old code in the template being updated, next you will recompile again. From the Main Menu, click Debug > Compile VBAProject.

Example Templates

Below is a table that shows screenshots of the ReadMe tab (if the template had one) for the example templates installed with J Street LIMS v6. You will now need to replace all instances of the following query & table names (**sysSampleSummarySelect** and/or **sysSampleSelect**) in the template you are updating with the SQL Code in the new example templates.

Template Name	ReadMe Tab	Change To
Analysis Count Chart.xltm	AutoSave ● OF	No VBA Code to change.
Analysis Projects.xltm	AutoSave Or	No VBA Code to change.
Bench Sheet - Oil & Grease.xltm	AutoSave end by Search is search of the sear	No VBA Code to change.
CofA Example - Specific Analytes.xltm	AutoSave © 01	qrySampleSummaryAnalysis,

Template Name	ReadMe Tab	Change To
CofA Example.xltm	▲ AutoSave ● f	qrySampleSummaryAnalysis
Container Labels - Dymo	AutoSave ● Orr) 日 ウ - C - Ξ = Container Labels - Dymo 30252 Address - Excel	No VBA Code to change.
30252 Address.xltm	File Home Insert Draw Page Layout Formulas Data Review View Automate Developer Help A1 I I	
Container Labels - Dymo	AutoSave ● Orr) □ ♡ - ○ = = Container Labels - Dymo 30256 Shipping1 - Excel	qrySelectedSampleAnalysis
30256 Shipping.xltm	File Home Insert Draw Page Layout Formulas Data Review View Automate Developer Help A1 Image:	

Template Name	ReadMe Tab	Change To
Control Chart - Analysis Results.xltm	AutoSave Corr Cord Chart Park Page Layout Formulas Data Review View Automate Developer Help File Home Insert Draw Page Layout Formulas Data Review View Automate Developer Help A1 Control Chart Page Layout Formulas Data Review View Automate Developer Help A1 Control Chart Page Layout Formulas Data Review View Automate Developer Help A1 Control Chart Page Layout Formulas Data Review View Automate Developer Help A1 Control Chart Page Layout Formulas Data Review View Automate Developer Help A1 Control Chart Page Layout Formulas Data Review View Automate Developer Help A1 Control Chart Page Layout Formulas Data Review View Automate Developer Help A1 Control Chart Page Layout Formulas Data Review View Automate Developer Help A B C D E F G H J J K L A B C D E F G H J J K L A B C D E F G H J J K L Control Chart Page Layout Formulas Data Review View Automate Developer Help A B C D E F G H J J K L A B template Control Chart Help Control Chart Help Page Layout Automate Automate Automate Control Chart Help Page Layout Of Your Control Chart Help Edveloper Layout Of Your Control Chart Help Edveloper Layout Of Your Control Chart Help Edveloper Layout Of Your Control Chart Help Page Layout Of Your Control Chart Help Edveloper Layout Of Your Control Chart Help Page Layout Of Hereports data. Note that named range OneCraphPoint contains formulas Use The NoneCraphPoint Tange is then cocpied vertically for each graph point. After exporting a control Chart He pixk Riss for the Control Chart Heave Control Chart Heave Chart Help Pixk Layout Of Here Formulas Lettings named range are escel to formulas within the OneCraphPoint named range Tornes are yound hear	qrySampleSummaryAll
Control Chart - QC Data.xltm	ControlChart UMSData Settings Read Me + ■ AutoSave ● OT ● O ● O ● O ● O ● Search File Home Insert Draw Page Layout Formulas Data Review View Automate Developer Help A1 > i × i × fs ● ■ ■ ■ ■ ■ ■ ■ ■ Image: Second Sec	qryQCData
EDD Example - All Analytes.xltm	Audolave	WhereFormUserComputer(), SampleQuerySelect
EDD Example - Specific Analytes.xltm	Andow	SampleQuerySelect, WhereFormUserComputer()

Template Name	ReadMe Tab	Change To
Final Report - N Samples per Page.xltm	AutoSave ● OF ● Final Report - N Samples per Page1 - Excel ● Search File Home Insert Draw Page Layout Formulas Data Review View Automate Developer Help A1 ● I ✓ I	qrySampleSummaryAnalysisRpt, WhereFormUserComputer(db)
Final Report - One Sample per Page with QC.xltm	AutoSave error eroror error eror error error error error error error error error ero	qrySampleSummaryAnalysisRpt, WhereFormUserComputer(db), SampleQuerySelect
Final Report - One Sample per Page.xltm	■ AutoSave ● Orn ● P ● F ● Search Pile Home Insert Draw Page Layout Formulas Data Review View Automate Developer Help All ● E F G H J K L All ● E F G H J K L All ● E F G H J K L All ● E F G H J K L All ● E F G H J K L All ● E F G H J K L All ● E F G H J K L All ■ E D E F G H J K L All ■ E D E F G H J K L K L K L K L K L <td>qrySampleSummaryAnalysisRpt, WhereFormUserComputer()</td>	qrySampleSummaryAnalysisRpt, WhereFormUserComputer()

Template Name	ReadMe Tab	Change To
Final Report - Samples in Columns.xltm	AutoSave ● m	qrySampleSummaryAnalysisRpt
Final Report - Samples in Rows.xltm	AutoSave error err	qrySampleSummaryAnalysisRpt, WhereFormUserComputer(db)
Final Report Example with QC.xltm	AutoSave error by Construction of the second s	qrySampleSummaryAnalysisRpt, WhereFormUserComputer(db)

Template Name	ReadMe Tab	Change To
Final Report	AutoSave ● Off) ☐ ♡ - ○ = = Final Report Example1 - Excel	WhereFormUserComputer(),
Example.xltm	File Home Insert Draw Page Layout Formulas Data Review View Automate Developer Help A1 \checkmark : $\times \checkmark$ f_R	qrySampleSummaryAnalysisRpt
	A B C D E F G H J K L 1 A B C D E F G H J K L 2 Last updated: 05-Jan-2023 Last updated: 05-Jan-2023 This template iss an example of a multi-sample find report that can be created by exporting MSC-LIMS' Sample Sumary report. The template iss sample analysis row. To typ the template, preview a multiple-sample sample and sample analysis own. To typ the template, preview a multiple-sample sample 7 reports the copy or the Neder rows. The template's Settings worksheet has important configuration options which can be used to acclude 'Internal data' analyses and to remove all infrastructure worksheets. You can create your own final tradition, and analysis results. After exporting a sample summary report to this template. profits the configuration and modifying the Report worksheet. The Report worksheets the sample summary report to this template, explore the workshock's worksheet's for here of the vork or vorksheet and copies the copy or the sample summary report. The AtterTransferTornLIMS macro populated by the LIMS whene vorksheets by reading data from the LIMS. The macro then inserts a row on the invoice worksheet and copies the formulas in the sheet's One-Analysis/SResult named range verticulty, once for each sample analysis exported from the UMS. Analysis data is displayed on the Report worksheet using formulas defined within the sheet's One-Analysis/SResult named range. To alter the report layout, no changes to the macro should be necessary. Simply modify the formulas and formats in the One-Analysis	
Invoice by Batch.xltm	Keport UMSUbata AnalysisData Customer Settings Madume + Image: Setting and Seting and Setting and Setting and Setting and Setting and S	WhereFormUserComputer(db, "frmInvoiceSetup")
	A B C D E F G H J K 3 Last updated: 05-Jan-2023	

Template Name	ReadMe Tab	Change To
Invoice by Sample.xltm	AutoSave ● Cm ● ♡ ← E = Invoice by Samplel • Excel File Home Insert Draw Page Layout Formulas Data Review View Automate Developer Help A1 • I • I ✓ F G H J K A B C D E F G H J K 3 Last updated: 05-Jan-2023 Insert District for the sample of a final invoice where the data is grouped by sample (see template Sinvoice worksheet contains an example of a final invoice worksheet uses simple formatics by copying this template and modifying the Invoice worksheet. Note: worksheet uses and the formatics of the template formation invoices by a copying this template and modifying the Invoice worksheet. Note: worksheet area to your own worksheet the layout of the report's header rows. 11 groups the invoice number in checeived dates and intentionally uses many columes with a small column width to give groups divide the last invoice number in checeived dates and intentionally uses the finit and Update Last Invoice/B bloch on on the invoice number in checeived and an in first worksheet. Note: Note the layout of the report's header rows. 12 To assign the invoice number in the template retrieves the last invoice number workbook specified on the Stitings worksheet and incremented by one) use the following formula: Invoice humber in a cell (L. It has last hivoice number in cheast hea	No VBA Code to change.
InvoiceNumber.xls	No Read Me tab.	No VBA Code to change.
J Street LIMS Analyses.xltm	■ AutoSave ● OFP ● 'P' ● 'E' ■ JStreet LIMS Analyzes1 - Excel ● Search File Home Insert Draw Page Layout Formulas Data Review View Automate Developer Help A1 ● I ● I J K L A B C D E F G H I J K L 3 Last updated: 05-Jan-2023 NOTE: This template requires MSC-LIMS version 2.3 or newer. MSC-LIMS' Analyses report currently lists all analyses defined in the system. Export the Analyses report to this template to create separate reports listing inhouse, sent out, internal data, and inactive analyses. The template's AfterTransferFormLIMS macro first copies the data we need for our reports from the LIMSData sheet to the the analyses in the actor given minics wing page headers on each sheet. The template's after transferFormLIMS macro first copies the data we need for our reports from the LIMSData sheet to the the Inhouse, sent out, internal Data, and inactive sheets to a produce the separate reports. Report titles are defined using page headers on each sheet. The check marks displayed in the Inhouse, Internal Data, and inactive columns are produced using the Wingding fort's character 252. 14 You can alter the layout of the reports by updating the copying and filtering code in the AfterTransferFromLIMS macro. 15 You can alter the l	No VBA Code to change.
J Street LIMS Export Template.xltm	AutoSave Orf Image: Specify the specific the specify the specific the specific the specify the specify the specify the speci	No VBA Code to change.

Template Name	ReadMe Tab	Change To
J Street LIMS UDR Export Template.xltm	AutoSave Orr \square \heartsuit \heartsuit \blacksquare \square	No VBA Code to change.
Monthly Sample Count Chart.xltm	AutoSave Corr Corr Corr Corr Corr Corr Corr Cor	No VBA Code to change.
Sample Tracking by Batch and Customer.xltm	AutoSave Or Image: Sample Tracking by Batch and Customerl - Excel Search File Home Insert Draw Page Layout Formulas Data Review View Automate Developer Help A1 Image: Sample Tracking report File F	No VBA Code to change.
Sample Tracking by Batch.xltm	■ AutoSave ● Off ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	No VBA Code to change.

Template Name	ReadMe Tab	Change To
Sample Tracking by	🚺 AutoSave 💽 OTD 🔄 🦃 - 🖓 - 🤤 🗢 Sample Tracking by Customert - Excel 🔎 Search	No VBA Code to change.
Customer.xltm	File Home Insert Draw Page Layout Formulas Data Review View Automate Developer Help	
	A1 \checkmark \vdots \checkmark fx A B C D E F G H I J K	
	3 4Last updated: 05-Jan-2023	
	While MSC-LIMS' sample tracking report can be used to quickly track incomplete samples and analyses, it is often convenient to see the report's data summarized with only counts of incomplete samples and analyses. Since the existing sample tracking report's data be everything necessary to create the summary, we simply export to Excel and use Excel's subtotals feature to summarize the data.	
	9 1 10 This template is an example of a custom sample tracking report, which summarizes the data by customer. Preview the MSC-LIMS sample tracking report using the appropriate options and sample query criteria then exporting to this the Xxxel template. The template's AfterTransferFromLIMS macro does all the work. Initially, the Report worksheet includes a list of customers and counts of incomplete samples and analyses. You can use the plus/minus buttons in the outline section to drill down and view login dates, samples, and individual analyses. You can also use the outline level.	
	15 Occuration of the open the black of the open termine of a point country of the black of the open termine of the open termine of the black of the open termine of the black	
	Report LIMSData Read Me +	
Sample Tracking by	🔹 AutoSave 💽 Off) 🔚 🏷 - 🖓 - 🚍 🗢 Sample Tracking by Project and Location1 - Excel 🖉 Search	No VBA Code to change.
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Location.xltm	A1 $f_{\mathbf{x}}$ $f_{\mathbf{x}}$ A B C D E F G H I J K L	
	Last updated: 05-Jan-2023 While MSC-LIMS' sample tracking report can be used to quickly track incomplete samples and analyses, it is often	
	6 convenient to see the reports data summarized with only counts of incomplete samples and analyses. Since the existing 7 sample tracking reports underlying data has everything necessary to create the summary, we simply export to Excel and 8 use Excel's subtotals feature to summarize the data.	
	10 This workhook is an example of a custom sample tracking report which summarizes by project and location. Preview the MSC-LIMS sample tracking report using the appropriate options and sample query criteria then exporting to this Excel template. The template's AfterTransferFromLIMS macro does all the work. Initially, the Report worksheet displays a list of projects and counts of incomplete samples and analyses. You can use the plus/minus buttons in the outline section to difficult own and view locations, samples, and individual analyses. You can also use the outline level buttons at the top of the outline to automatically expand/collapse to the selected outline level.	
	Use Alt+F11 to open the VBA editor, then double-click on the LIMSData worksheet under Microsoft Excel Objects in the VBA Project window to view the macro's code.	
	< > Report LIMSData Read Me +	
Work Order.xltm	AutoSave ● orr)	No VBA Code to change.
	File Home Insert Draw Page Layout Formulas Data Review View Automate Developer Help	
	A B C D E F G H I J K L	
	2 3 Last updated: 28-Mar-2023	
	 This template is an example work order report that can be created by exporting MSC-LIMS' Work Order. The template This template is an example work order report that can be created by exporting MSC-LIMS' Work Order. The template to MS Excel Template then select this template. 	
	The Report worksheet intentionally uses many columns with a narrow column width to give greater control over the layout of the sample's header rows. When modifying the layout on the Report sheet pay particular attention to named ranges OneSample. OneAnalysisResult, OneAnalysis, and OneResult. Named range OneSample must encompass named range OneAnalysisResult which must encompass named ranges OneAnalysis and OneResult. The total mumber of columns in the OneSample range should be evenly divisible by the number of columns and there were 7 OneAnalysisResult range. For example, this template's OneSample range south as a failed by the one of the one of the same of the one of the same of the one o	
	15 The template's Settings worksheet has important configuration options which can be used to remove all infrastructure 16 The template's Settings worksheet has important configuration options which can be used to remove all infrastructure 17 worksheets, prevent screen updating during macro execution, and force horizontal page breaks for a designated 18 number of samples per page. You can create your own LIMS work order reports by copying this template and 19 named ranges to specify the location for analyses and their optional results. After exporting a LIMS work order report 20 to this template, explore the workbook's worksheets for the data available for your report.	
	22 The LIMSData worksheet, which contains sample characteristics for each sample, is populated by the LIMS when 23 exporting the Work Order report. The AfterTransferFormLIMS macro populates the AnalysisData worksheet by 24 querying data from the LIMS. The macro then copies the formulas in the sheet's OneSample named range vertically, 25 conce for each sample exported from the LIMS. The OneAnalysisResult named range does not use formulas to display 26 analyses and their results. The AfterTransferFormLIMS macro copies the OneAnalysisResult named range horizontally 26 and adds additional rows as necessary to display the sample's analyses. The macro uses the OneAnalysis and 27 OneResult named ranges within the OneAnalysisResult to place the analyte name and result.	
	29 To alter the report layout, no changes to the macro should be necessary. Simply modify the formats, size, and formats in the OneSample, conchanjasiaResult, DenAnajvis, and OneResult named ranges. Modify the formats, size, and and location of the OneAnalysisResult, OneAnalysis, and OneResult named ranges to alter the placement of analyses.	
	To view the VBA code in the AfterTransferFromLIMS macro, use Alt+F11 to open the VBA editor, then double-click on the LIMSData worksheet under Microsoft Excel Objects in the VBA Project window. Note that macro text in green are	
	ac comments.	

Template Name	ReadMe Tab	Change To
Work Sheet.xltm	AutoSave On Second	No VBA Code to change.