

Microbiological Reporting System

Introduction

Our Microbiological Reporting System (MRS) uses the latest technology to help you manage your environmental monitoring data, providing a high level of management trending information at the touch of a button. The system is designed to fit in with existing work flows, whilst being easy to use and providing users with the required functionality for a busy quality control laboratory large or small. The system can be easily customised to mirror your exact requirements where necessary.

The Room Editor interface displays a list of rooms on the left and a detailed view of a selected room on the right. The room details include Room Name, Room Type, Room Location, and Incubation Period. The Room Plates section shows a table of plates with columns for Plate #, Plate Location, Alert, Action Critical, Transfer, and Default (1045).

Plate #	Plate Location	Alert	Action Critical	Transfer	Default (1045)
1	HLAF Cabinet (Session 1) Front Settle Plate	1	1	☒	☒
2	HLAF Cabinet (Session 1) Rear Settle Plate	1	1	☒	☒
3	HLAF Cabinet (Session 2) Front Settle Plate	1	1	☒	☒
4	HLAF Cabinet (Session 2) Rear Settle Plate	1	1	☒	☒
5	HLAF Cabinet (Session 3) Front Settle Plate	1	1	☒	☒
6	HLAF Cabinet (Session 3) Rear Settle Plate	1	1	☒	☒
7	HLAF Cabinet (Session 1) Bero Contact Plate	1	1	☒	☒
8	HLAF Cabinet (Session 1) Durin Contact Plate	1	1	☒	☒
9	HLAF Cabinet (Session 2) After Contact Plate	1	1	☒	☒
10	HLAF Cabinet (Session 2) Bero Contact Plate	1	1	☒	☒
11	HLAF Cabinet (Session 2) Durin Contact Plate	1	1	☒	☒
12	HLAF Cabinet (Session 3) After Contact Plate	1	1	☒	☒
13	HLAF Cabinet (Session 3) Bero Contact Plate	1	1	☒	☒
14	HLAF Cabinet (Session 3) Durin Contact Plate	1	1	☒	☒
15	HLAF Cabinet (Session 3) After Contact Plate	1	1	☒	☒
16	HLAF Cabinet (Session 1) Bero Finger Touch Pl	1	1	☒	☒
17	HLAF Cabinet (Session 1) Durin Finger Touch Pl	1	1	☒	☒
18	HLAF Cabinet (Session 1) Durin Finger Touch Pl	1	1	☒	☒
19	HLAF Cabinet (Session 1) Durin Finger Touch Pl	1	1	☒	☒

Room Editor

The room editor is used to setup and manage rooms and plates including associated action and alert levels. Plates can be grouped into Instances which can be used for entering results. Users can also manage room operators. If a room is used for manufacturing, then the room products are managed here too.

Room Form Printer

Printout standardised room monitoring forms, which help room operators to record plate details and speed up the data entry process. Room forms can stay with the plates through the whole process and be customised to your design. The forms show only the plates that make up the Instance helping operators know what media is required.

The Room Form Printer interface shows a form for printing room monitoring data. It includes fields for Instance ID, Room Instance, Trust, Site, Room, and Instance. The form also displays a table of plates and a section for recording results.

No Production Dates

Create and manage no production dates, which stop results been entered for these dates helping to eliminate user error when entering results. No production dates also ensure that your reports are more meaningful and accurate, by highlighting the status of the room and results.

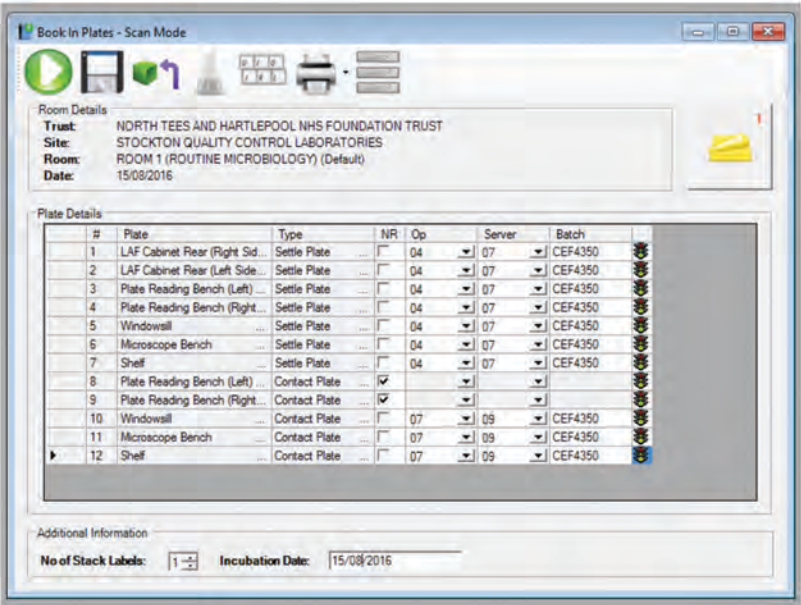
The No Production Dates interface shows a calendar view for selecting dates. It includes a dropdown for selecting a room and a table of dates for August, September, and October 2016. The table highlights dates where no production dates are allowed.

August 2016							September 2016							October 2016																							
Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun																	
25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Book In

Book In is a process which collects data from the Room Form (Plates arrived, Operator, Server, Exposure and Batch Number). Having entered this data plates are registered in groups on the system and given a unique ID. This is an optional process which can speed up the reading process. The process helps create a workload for analysts.

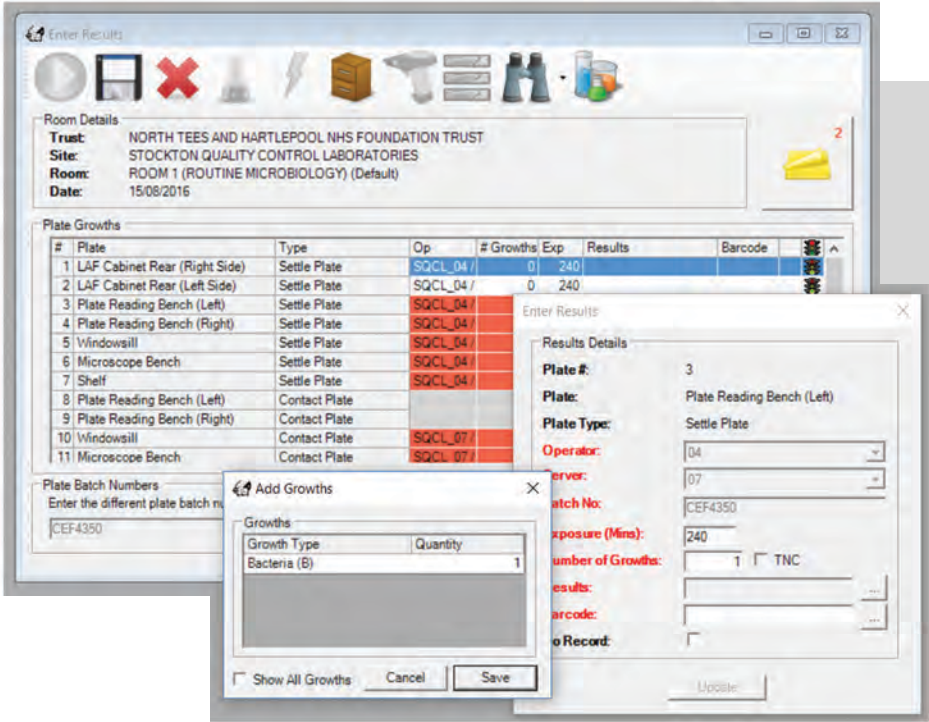
The system takes advantage of barcode scanners and label printers to improve this process. Notes can be attached to the Result Set to capture additional information that may be relevant through the reading and releasing processes.



Enter Results

If the Book In process has been used then the plate data will be pre populated. Otherwise the analyst is required to enter the operator and server information as well as the results. A form is used for each plate, ensuring the process is simple, efficient and eliminates data entry errors. Results can be entered in full, or partially using a unique ID until the growth analysis is available.

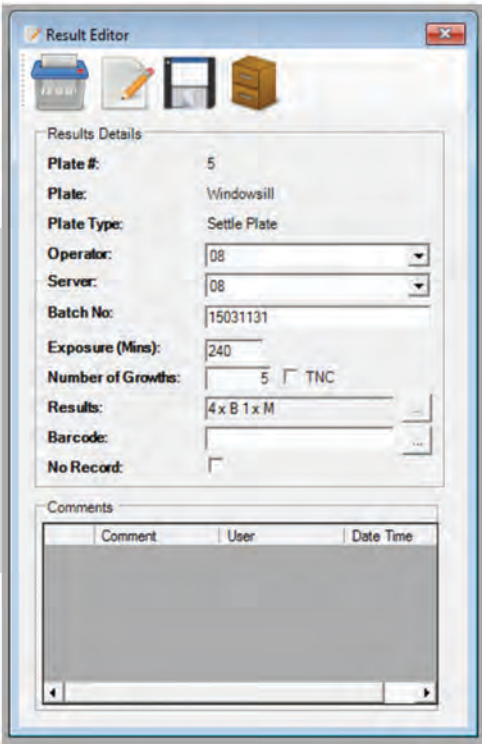
You can manage your own growth types, review plates ready to be read, and results that are awaiting analysis.



Results Editor

Occasionally results may be entered incorrectly, or need modifying. The Results Editor allows you to correct these errors whilst providing an audit trail of the changes made. The audit trail can be reviewed at a later date.

Any changes made here will update exception reports and any other reports that the result is linked to. Editors can't release their own edits. As with all programs within MRS access can be restricted on a user by user basis.



Exception Reports

As soon as an exceptional result is entered an Exception Report is automatically generated. Each Report has a unique ID. Standardised comments can be added to these reports before being sent in hard copy or digital form to the relevant user groups for action. User responses can also be stored for a full audit trail. With the addition of the web reporting, exception reports can be viewed and responded to online. Any updates to results will also update the Exception Reports. Alert Reports can also be generated and follow the same format.

The screenshot shows a 'Released Exception Reports' window with a table of reports. A detailed view of report 2015234 is shown, including room details, result set, growth details, and a percentage failure rate of 0.50%.

ID	Report Date	Room
2014860	15/12/2014	SINKS/DRAINS
2014536	11/09/2014	ROOM 1 (ROUTINE MICROBIOLOGICAL)
2015234	02/04/2015	ROOM 1 (ROUTINE MICROBIOLOGICAL)
2012235	19/07/2012	RADIOPHARMACY (old)
2012248	26/07/2012	RADIOPHARMACY (old)
2012254	02/08/2012	RADIOPHARMACY (old)
2012327	06/08/2012	RADIOPHARMACY (old)
2012375	27/08/2012	RADIOPHARMACY (old)
2012386	04/10/2012	RADIOPHARMACY (old)
2012418	11/10/2012	RADIOPHARMACY (old)
2012431	18/10/2012	RADIOPHARMACY (old)
2012456	25/10/2012	RADIOPHARMACY (old)
2012486	08/11/2012	RADIOPHARMACY (old)
2012507	15/11/2012	RADIOPHARMACY (old)
2012547	29/11/2012	RADIOPHARMACY (old)
2012571	06/12/2012	RADIOPHARMACY (old)
2012326	10/09/2012	RADIOPHARMACY (old)
2012340	17/09/2012	RADIOPHARMACY (old)
2012432	19/10/2012	RADIOPHARMACY (old)
2012487	29/10/2012	RADIOPHARMACY (old)
2012466	30/10/2012	RADIOPHARMACY (old)
2012593	17/12/2012	RADIOPHARMACY (old)
2012603	24/12/2012	RADIOPHARMACY (old)
2012120	04/01/2013	RADIOPHARMACY (old)
2013306	18/04/2013	RADIOPHARMACY (old)
2013371	23/04/2013	RADIOPHARMACY (old)

Release Results

Lab managers can review and release results. Once a result is released it can be reported on and viewed by the end users either through the web interface or monthly reports. The process allows lab managers to add notes to results, and review existing notes. Results with No Growths and No Exceptions can be released in bulk. The lab manager releasing the results will not be allowed to release if they have been involved with reading or editing process.

The screenshot shows a 'Result Sets Ready for Release' window with a table of result sets. A detailed view of a result set is shown, including room details, read details, results additional info, growth details, and plate batch numbers.

ID	Report Date	Instance	Room
29189	07/05/2015	Weekly ISU	ASEPTIC MANUFACTURING SUITE
29163	07/05/2015	Default	CYTOTOXIC SUITE (ZONE 5)
29165	06/05/2015	Default	CYTOTOXIC SUITE (ZONE 5)
29168	04/05/2015	Default	CYTOTOXIC SUITE (ZONE 5)
29167	02/05/2015	Default	CYTOTOXIC SUITE (ZONE 5)
29134	05/05/2015	System_Instance_888-997	ASEPTIC UNIT
29146	06/05/2015	System_Daily	RADIOPHARMACY
29002	05/05/2015	Weekly CP	ASEPTIC PREPARATION UNIT
29121	05/05/2015	System_Instance_1050-1298	STERILITY SUITE
29179	10/11/2015	Weekly Contact	Validation Room
29175	08/05/2015	Session/Daily	RADIOPHARMACY
29176	07/05/2015	Session/Daily	RADIOPHARMACY
29174	06/05/2015	Default	RADIOPHARMACY
29177	05/05/2015	Session/Daily	RADIOPHARMACY
29170	07/05/2015	System_Instance_170-672	ASEPTIC SUITE
29173	06/05/2015	Session/Daily	ASEPTIC SUITE
29038	05/05/2015	System_Instance_170-673	ASEPTIC SUITE
24870	02/01/2015	System_Instance_170-673	ASEPTIC SUITE
24822	29/12/2014	System_Instance_170-673	ASEPTIC SUITE
24187	09/12/2014	Session/Daily	ASEPTIC SUITE
16300	13/03/2014	Session/Daily	ASEPTIC SUITE
13182	11/11/2013	Session/Daily	ASEPTIC SUITE
29172	08/05/2015	Session (A)	CYTOTOXIC SUITE

The screenshot shows a 'Management Overview' window with a table of result sets. The table includes columns for Result Set Date, Instance, and Status.

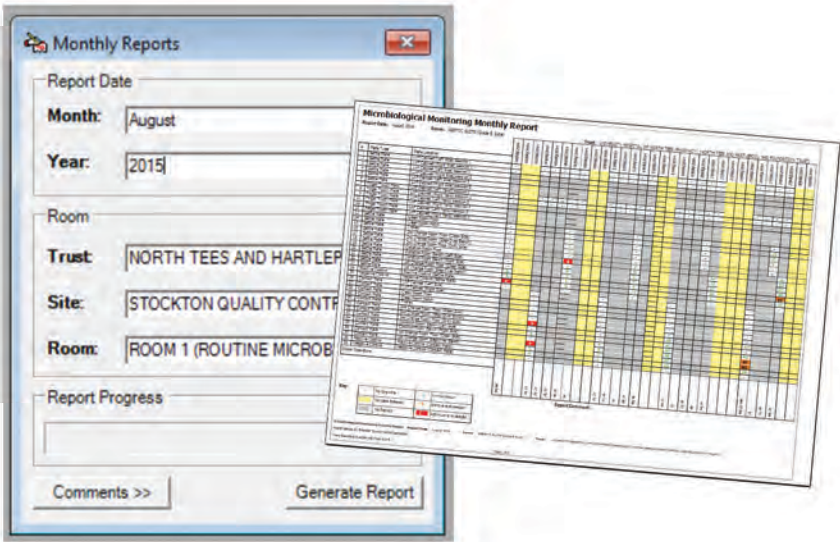
Result Set Date	Instance	Status
15/08/2016	Default	Result Booked In 16/08/2016
07/05/2015	Weekly	Result Booked In 08/05/2015
07/05/2015	Weekly	Result Released 13/05/2015
30/04/2015	Weekly	Result Released 06/05/2015
30/04/2015	Weekly	Result Booked In 01/05/2015
23/04/2015	Weekly	Result Booked In 24/04/2015
23/04/2015	Weekly	Result Released 29/04/2015
16/04/2015	Weekly	Result Released 22/04/2015
16/04/2015	Weekly	Result Booked In 17/04/2015
09/04/2015	Weekly	Result Booked In 10/04/2015
09/04/2015	Weekly	Result Released 14/04/2015
02/04/2015	Weekly	Result Released 09/04/2015
02/04/2015	Weekly	Result Booked In 07/04/2015
26/03/2015	Weekly	Result Booked In 27/03/2015
26/03/2015	Weekly	Result Released 31/03/2015
19/03/2015	Weekly	Result Released 25/03/2015
19/03/2015	Weekly	Result Booked In 20/03/2015
12/03/2015	Weekly	Result Booked In 13/03/2015
12/03/2015	Weekly	Result Released 18/03/2015
05/03/2015	Weekly	Result Released 10/03/2015
05/03/2015	Weekly	Result Booked In 06/03/2015
26/02/2015	Weekly	Result Booked In 27/02/2015

Management Overview

View the status of result sets, and view the completed result set. Results can be found by Room and Result Set Date. Results can be exported from here as PDFs. The management overview also gives access to other management information, such as plates ready to read, plates awaiting further identification, and KPI's. This screen is really useful for lab administrators who can have read only access to the results and progress of the results.

Monthly Reports

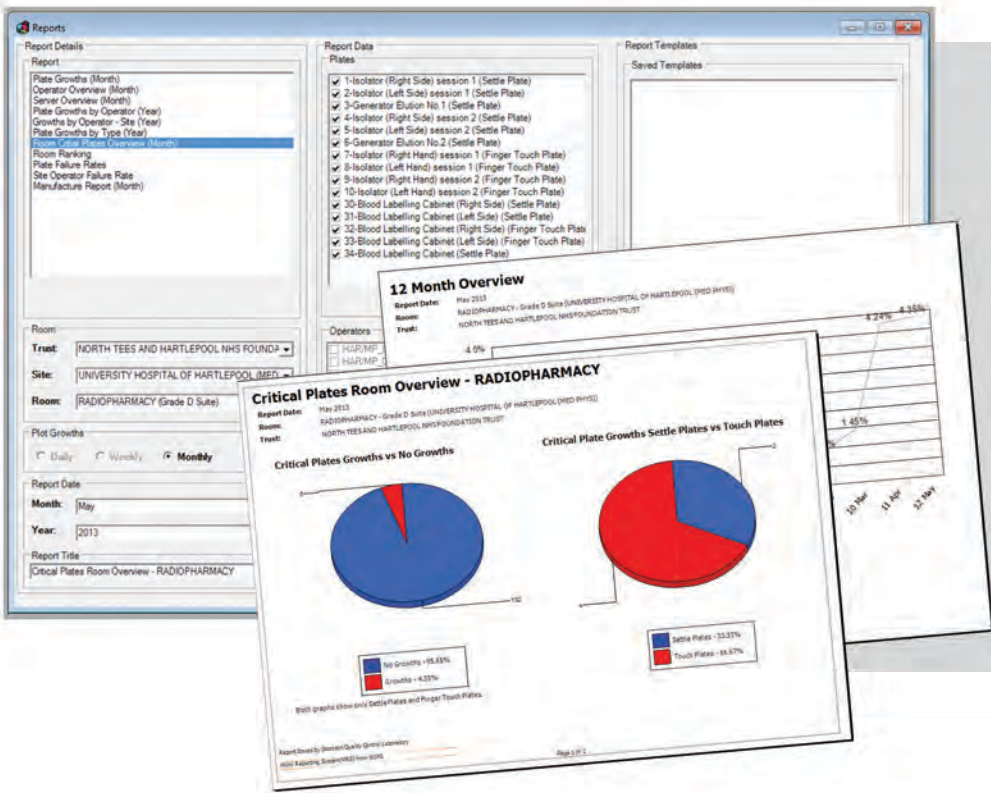
Generate reports which show a snapshot review of monthly plate activity. The report provides an overview of activity and a key details the results. Reports are colour coded according to the state of the result, i.e within range, exceptional etc. Reports can have comments appended to them explaining result anomalies. Reports can be printed or exported to a PDF.



Trending & Reports

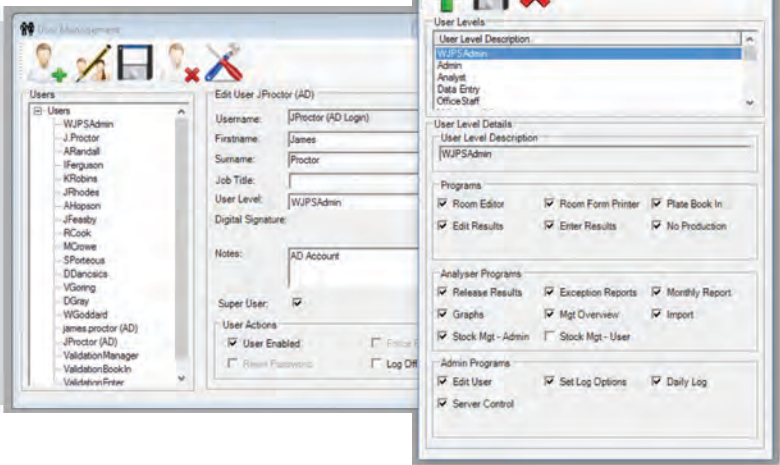
Generate up to 11 different graphical and data reports by selecting a room, the plate and the operators you want to trend results for. The graphs include critical room overviews, operator growths, plate growths, room league tables, percentage failure rates and more. All reports can be customised, and additional bespoke reports can be developed on request.

Report templates can be created to make it easier to remember the combination of plates and operators you report on regularly.



User Management

The system is secured by a robust user management structure allowing user profiles to be created and tailored to meet the individual requirements. Different user levels can be assigned to restrict access to sections of the software. User activity is also logged in a daily log. The system can be linked to Active Directory to allow users to use the same username and password as they use on other computers.



Further Information and Demonstrations

Would you like to find out more and discuss your requirements? Why not get in touch and book a free online demonstration, email info@wjps.co.uk or visit www.wjps.co.uk to arrange this. We are also able to offer on-site demonstrations to larger audiences as required.