



Improved Compliance Reporting and Automated Guideline Exceedance Alerts via ALS Solutions

The new *ALS Solutions* digital client interface and online data portal provides numerous enhancements to *Webtrieve™*, including customized Compliance Reports and automated email notifications of guideline exceedances.

ALS has provided clients with online access to laboratory test results for over a decade with *Webtrieve™*, our original digital interface, and many of our Canadian clients use this service regularly. In late 2019, ALS Canada commenced the rollout of GEL - the ALS Global Environmental Laboratory Information Management System (LIMS). Today, all ALS Canada routine testing laboratories have successfully transitioned to GEL.

A parallel project is the upgrade and global standardization of the ALS digital client interface - *ALS Solutions*. This interface brings several new benefits to ALS clients globally. The *ALS Solutions* home screen is compatible with all modern devices (computers, tablets, and smartphones), allowing evaluations in real-time from wherever you are.

This *EnviroMail* highlights new *ALS Solutions* features and capabilities, including simplified and automated generation of Compliance Reports plus fully automated email alerts, both evaluating your results against applicable guidelines, standards, or permit limits. An *ALS Solutions User Guide* is also available within the application to guide you through these processes.

Figure 1 illustrates the new *Project Management Links* widget, with access to many new features, including powerful new tools for Excel Report Creation and for Notifications and Scheduling, which are explored further below.

Compliance Report Creation and Formats

One of the most powerful features available in *ALS Solutions* is the generic *Compliance Evaluation* report. Selecting a *New Compliance Evaluation* report creates an Excel report that can be displayed in three different formats: “*Results with Guidelines - Vertical*”, “*Results with Guidelines - Horizontal*”,

and “*Results with Guidelines - Detailed*”. Each of these report formats is intended to summarize the results of a discharge point, monitoring well, or sampling location over time, with test results evaluated against applicable regulatory or compliance limits, such as discharge permit limits, drinking

Figure 1. Project Management Links Widget

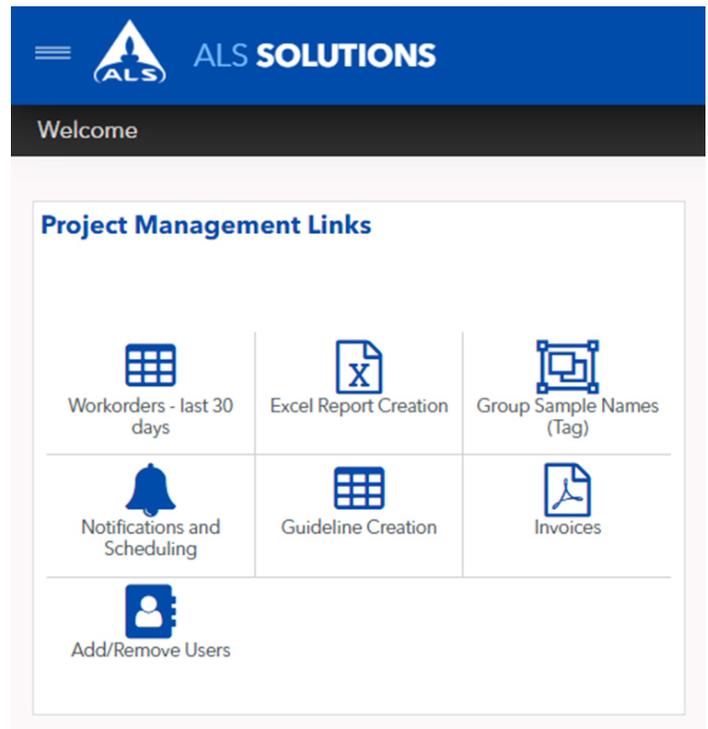


Figure 2. Results with Guidelines - Vertical Report

		Guidelines					
		Sewer Use Bylaw					
		Pass Limits					
		Lower	Upper	VA23A1614-001	VA23A1614-002	VA23A1614-003	VA23A1614-004
Sample							
Name				C34-1	C34-2	C34-3	C34-4
Sampling Date				24-01-2023 10:00	24-01-2023 10:00	24-01-2023 10:00	24-01-2023 10:00
ALS ID				VA23A1614-001	VA23A1614-002	VA23A1614-003	VA23A1614-004
Test							
	Unit	LOR					
Aggregate Organics							
Oil & grease	mg/L	S	<=150	269	169	99.7	105
Oil & grease, mineral	mg/L	S	<=15	130	81.4	47.9	48.6
Evaluations							
Within Limit		Within Limit					
Exceeds Limit		Exceeds Limit					

water quality guidelines, freshwater aquatic life water quality guidelines, etc.

For optimal ease of use, these reports can be set up using *Sample Tags* - alphanumeric filters that are easily configured to identify sample naming syntax so historical and future samples can be automatically recognized and grouped together in reports and notifications. Sample Tags can be created from the *Group Sample Names (Tag)* icon in the *Project Management Links* widget.

The *Results with Guidelines - Vertical* report (Figure 2) has a tabular format, displaying test parameters vertically, and with *Sample - Client IDs* listed horizontally, ordered chronologically by *Sampling Date*. Results that exceed limits are highlighted red, and results that pass are highlighted green.

The *Results with Guidelines - Horizontal* report (Figure 3) is another tabular format option, displaying *Sample - Client ID* vertically in a column, ordered chronologically by *Sample - Received Date*, with test parameters listed horizontally to the right. Each column has a filter, enabling selection of *Sample - Sampling Date* ranges and specific *Sample - Client IDs*. Any results exceeding limits are highlighted red and any results within limits are green.

The *Results with Guidelines - Detailed* report (Figure 4) provides an Excel sheet with all data fields presented in the same row, such that all fields are filterable (e.g. *Client ID*, *Sampling Date*, *ALS ID*, *Test Group*, *Test*, *Unit*, *Result*, *Evaluation*, etc.). As a result, this format provides a quick and easy way to summarize any limit exceedances for a given Client ID and/or a given time period.

Figure 3. Results with Guidelines - Horizontal Report

Guidelines		Sample				Test	Unit	mg/L	mg/L
Sewer Use By/Law	Pass Limits	Lower	Upper	Name	Sampling Date	ALS ID	LOR		
				VA23A1614-001	C34-1	24-01-2023 10:00	VA23A1614-001	269	130
				VA23A1614-002	C34-2	24-01-2023 10:00	VA23A1614-002	169	81.4
				VA23A1614-003	C34-3	24-01-2023 10:00	VA23A1614-003	99.7	47.9
				VA23A1614-004	C34-4	24-01-2023 10:00	VA23A1614-004	105	48.6
Evaluations									
Within Limit		Within Limit							
Exceeds Limit		Exceeds Limit							

Figure 4. Results with Guidelines - Detailed Report

Sample			Tests					Guidelines		
Name	Sampling Date	ALS ID	Test Group	Test	Unit	Resu	Evaluation	Guideline	Evaluation	Pass Limits
C34-1	24-01-2023 10:00	VA23A1614-001	Aggregate Organics	Oil & Grease	mg/L	269	Exceeds Limit	Sewer Use Bylaw	Exceeds Limit	<=150
C34-1	24-01-2023 10:00	VA23A1614-001	Aggregate Organics	Oil & Grease, mineral	mg/L	130	Exceeds Limit	Sewer Use Bylaw	Exceeds Limit	<=15
C34-2	24-01-2023 10:00	VA23A1614-002	Aggregate Organics	Oil & Grease	mg/L	169	Exceeds Limit	Sewer Use Bylaw	Exceeds Limit	<=150
C34-2	24-01-2023 10:00	VA23A1614-002	Aggregate Organics	Oil & Grease, mineral	mg/L	81.4	Exceeds Limit	Sewer Use Bylaw	Exceeds Limit	<=15
C34-3	24-01-2023 10:00	VA23A1614-003	Aggregate Organics	Oil & Grease	mg/L	99.7	Within Limit	Sewer Use Bylaw	Within Limit	<=150
C34-3	24-01-2023 10:00	VA23A1614-003	Aggregate Organics	Oil & Grease, mineral	mg/L	47.9	Exceeds Limit	Sewer Use Bylaw	Exceeds Limit	<=15
C34-4	24-01-2023 10:00	VA23A1614-004	Aggregate Organics	Oil & Grease	mg/L	105	Within Limit	Sewer Use Bylaw	Within Limit	<=150
C34-4	24-01-2023 10:00	VA23A1614-004	Aggregate Organics	Oil & Grease, mineral	mg/L	48.6	Exceeds Limit	Sewer Use Bylaw	Exceeds Limit	<=15
Evaluations										
Within Limit		Within Limit								
Exceeds Limit		Exceeds Limit								

Figure 5. Exceedance Failure Email Notification

ALS Solutions

Dear Client,

This is an automated notification to inform you that there is/are results that have exceeded the guidelines configured. The details of the results are below.

Name	Discharge Point
Site	HAPPY DAYS MINE
Job #	
Contact	
Description	
Overall Description	
Sampling Date	13-04-2022 07:30
Test/Unit	anthracene mg/L
ALS ID	CG2204167-001
PO #	
Result	0.0057

Guideline	Category	Evaluation	Pass Limits
Happy Days Mine Discharge Permit Limit		Fail	<=0.0056

If you require further assistance, please contact your ALS Client Support.

Notifications and Scheduling

With the *Notifications and Scheduling* tools within *ALS Solutions* (found under the *Project Management Links* widget on the home screen) you can now configure automated notification emails to be sent IMMEDIATELY whenever a test result has exceeded a pre-configured compliance limit. An example exceedance notification for the Happy Days Mine is shown above in Figure 5. When receiving this alert, you can click the ALS ID (blue highlighted link) to go directly to the applicable test result in *ALS Solutions*.

Compliance Evaluation reports can also be scheduled to generate automatically, so that daily, weekly, monthly, or annual reports are ready in advance of your reporting deadlines. You will receive notification by email when your scheduled report is available for download in *ALS Solutions*.

For more details, the *ALS Solutions User Guide* can be accessed from the *Technical Support* widget on the home screen of the application.

For initial setup of your organization's account and administrator, or to schedule an *ALS Solutions* demonstration, please contact your ALS Canada Project Manager. Your administrator can then setup and authorize new users and permissions.