All data is subject to automatic validation checks prior to import, ensuring you can use your data with confidence. Main categories of data are:

**Laboratories**
Laboratory Data can be directly imported into ESdat. Most major laboratories can provide data in a suitable format, which includes comprehensive Quality Assurance information.

**Field**
Field and Borehole/Drilling data can be entered directly into ESdat Excel based Import Templates, or imported directly from the PLog PDA system.

**Historical/Other**
Historical or data from other sources can be imported directly from tabular formats in Excel.

**Extensible**
All hydrogeological, geo-environmental, and similar data can be managed within the system, or it can be extended by the user to capture additional data as required.

Easy import of validated (correct) data is critical to the efficient and reliable usage of the system. Data can be added directly onto a map; to a table; through a PDA; in bulk from Excel; or from data files.
Chemistry output tables automatically show results alongside environmental standards, exceedances and summary statistics.

Results can be grouped or arranged in a specific order; can be orientated with the compounds across the top, or down the left; and exceedances of environmental standards can be indicated by font changes or highlighting.

• Compounds across or down
• Format exceedances by background color, font color, underline, bold, italic
• Customisable templates
• Many different presentation options
Chemistry data is often assessed against strict QA protocols. The ESdat QA checker has the ability to assess chemistry data for the following QA tests:

- Field and Interlaboratory duplicates
- Field and laboratory blanks
- Holding times
- Certified reference materials
- Laboratory duplicates
- Matrix and trip spikes
- Laboratory control samples
- Surrogates

### Detailed tables (e duplicates)

<table>
<thead>
<tr>
<th>Chemistry</th>
<th>Unit</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iron</td>
<td>mg/l</td>
<td>0.005</td>
</tr>
<tr>
<td>Potassium</td>
<td>mg/l</td>
<td>0.005</td>
</tr>
<tr>
<td>Sodium</td>
<td>mg/l</td>
<td>0.005</td>
</tr>
<tr>
<td>Bicarbonate</td>
<td>mg/l</td>
<td>0.005</td>
</tr>
<tr>
<td>Nitrate</td>
<td>mg/l</td>
<td>0.005</td>
</tr>
</tbody>
</table>

### Summary tables

<table>
<thead>
<tr>
<th>Matrix Type</th>
<th>GAS</th>
<th>soil</th>
<th>WATER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sampling Period (days)</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Number of Samples Submitted</td>
<td>100</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>Number of Iron QA Samples Submitted</td>
<td>8</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>Number of Field Blanks</td>
<td>6</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Number of Trip Blanks</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Number of Non-Rates</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Number of Field Duplicates</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Number of Interlab Duplicates</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Number of Trip Spikes</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Number of Lab Duplicates</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

*High PIs are included (Acceptable PIs for each EQS, multiply range are 0.5 to 1.5 x EQS).*
Graphing

Graphs can be produced and exported to Excel with a number of options.

Graphs can include a Mann Kendall or Linear Regression trend analysis, and Environmental standards can be included on the graph.

- Lab, field or logger data
- Include environmental guidelines
- Trend analysis
An inbuilt GIS offers all the basic functionality required for producing report quality maps. Data can alternatively be exported to ArcMap, Mapinfo, Surfer or Google Earth using ESRI Shape, MapInfo MIF, ML, text files, or live ODBC database linkages.

- Min / Max / Avg / Range: labels and colouring
- Chemistry tables on an inbuilt map
- GIS is inbuilt, or export to ArcView, MapInfo, Google Earth, Surfer
ESdat can integrate with:

- Excel
- ProUCL
- Google Earth
- Surfer
- ArcMap
- MapInfo
- EVS
- gINT
- WinLog
- PLog

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- Excel
- ProUCL
- Google Earth
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- MapInfo
- EVS
- gINT
- WinLog
- PLog

External applications
“Its simple, efficient and easy to learn”
Hamish Campbell, ERM

“Ease of use, generic/flexible, standard platforms (Access/SQL Server), support”
Luke Cameron, Golder Associates

“Quick and easy tables and dataset overview, great QA help”
Yvonne Binai, GHD

“Ability to pick up guideline exceedences automatically”
Belle Casement, Senversa

“Good for large volumes of laboratory results”
Tom Madill, Tonkin & Taylor

“Time savings, especially for long-running sites (historical data). Reduction of errors (no transcription)”
Amy Smith, Parsons Brinckerhoff

“I like that I don’t have to go through the data to find Guidelines exceedances”
Ryan Baxter, EBA Engineering

“Laboratory reporting formats/QA/QC/TIME SAVING”
Cameron Kay, Golder Associates Pty Ltd

“Generate chem data and borelogs within minutes. Provides a data base of all lab reports for each job”
James Coley, FMG Engineering

“Accuracy of data”
Tho Tran, OTEK
Download a demo

For more information or to purchase a copy please contact your local distributor:

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