

MonitorPro



Professional Environmental Data Management

Javier Alberto Murdocca
Sales Agent

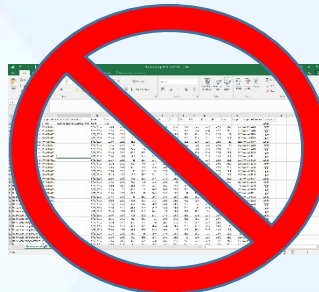


- MonitorPro is a product of EHS Data
- 22 years industry leadership
- Head Office: Newark-on-Trent, England
- High liability industries with strict regulatory obligations



Manage your entire data lifecycle from planning to reporting

- **Increase efficiency** through automation and accurate data capture
- **Reduce compliance risks** through planning, compliance checks, calculations, alerts & scheduled reporting tools
- **Improves data quality** through validation, security & audit trails
- **Foresee performance or occurrences** through trend analysis on updated dashboards
- **Adds confidence** that authorities receive environmental report on time and with reliable data



- Import from any data source



- Automated Data Validation and Quality Assurance
- Compliance Control – Automated Alerts
 - Regulatory limits, internal targets, etc.
- Powerful Analysis Tools - Automated Report Generation & Submission
- Monitoring Scheduling Management
- Automation of complex calculations
- Software Integration
 - Databases, Mapping, Graphical Tools

MonitorPro



Thousands of users in 30+ Countries



Industrials

Mining

Waste Handling

Authorities

Offices: Brisbane, Australia | Calgary, Canada | Buenos Aires, Argentina
Distributor: Alpha-Safety, Kazakhstan, Russia, The Ukraine





- The English Environment Agency have integrated MonitorPro into their Permittee reporting review process.
- M-Certs is the English Environment Agency's UK quality standard for Environmental Monitoring Tools. MonitorPro was the first Environmental Data Management System to be certified for Quality Assurance.



ADMIN - Administrate the database



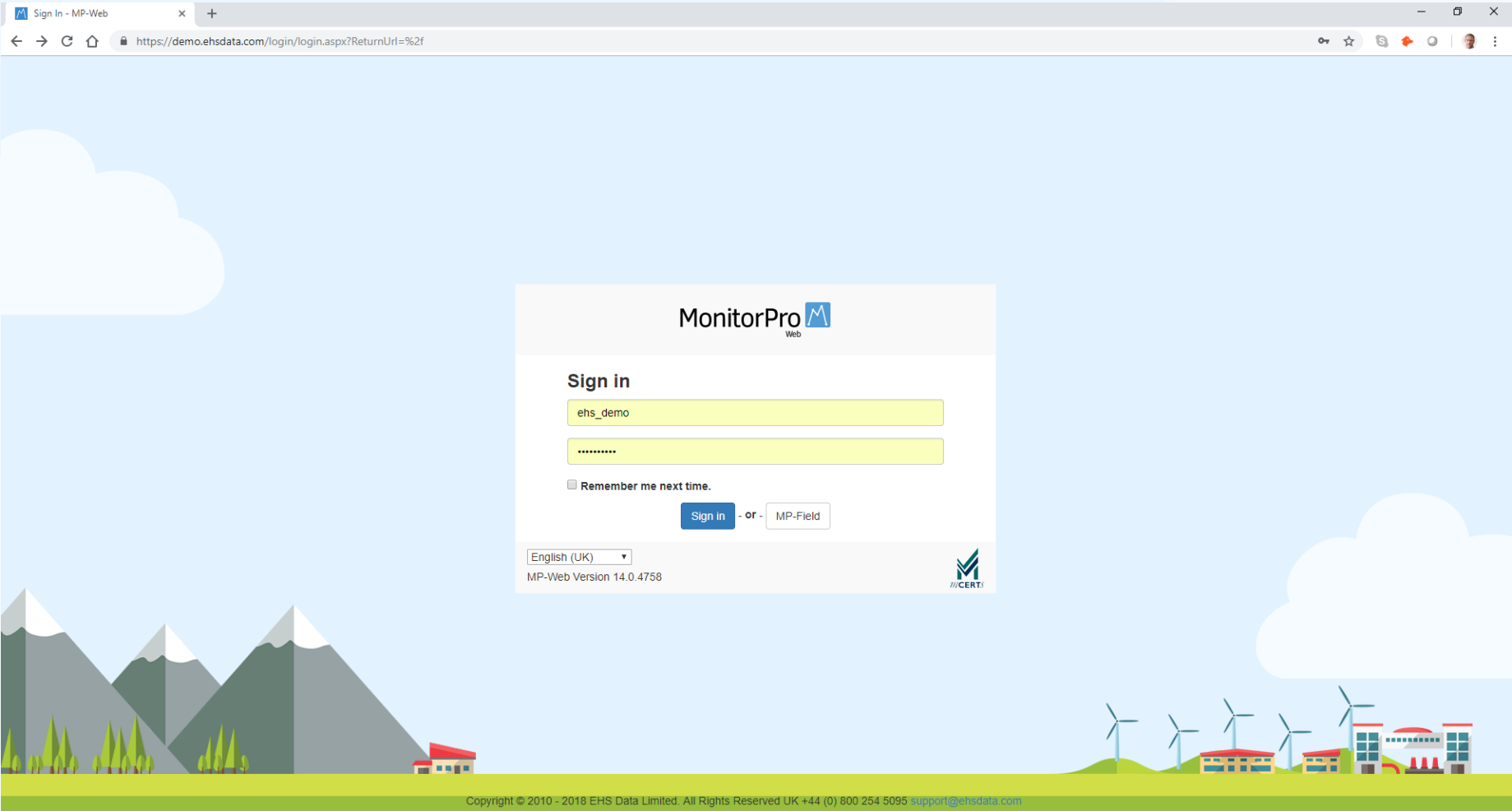
WEB - Everyday use



FIELD - Offline data collection in the field on mobile devices

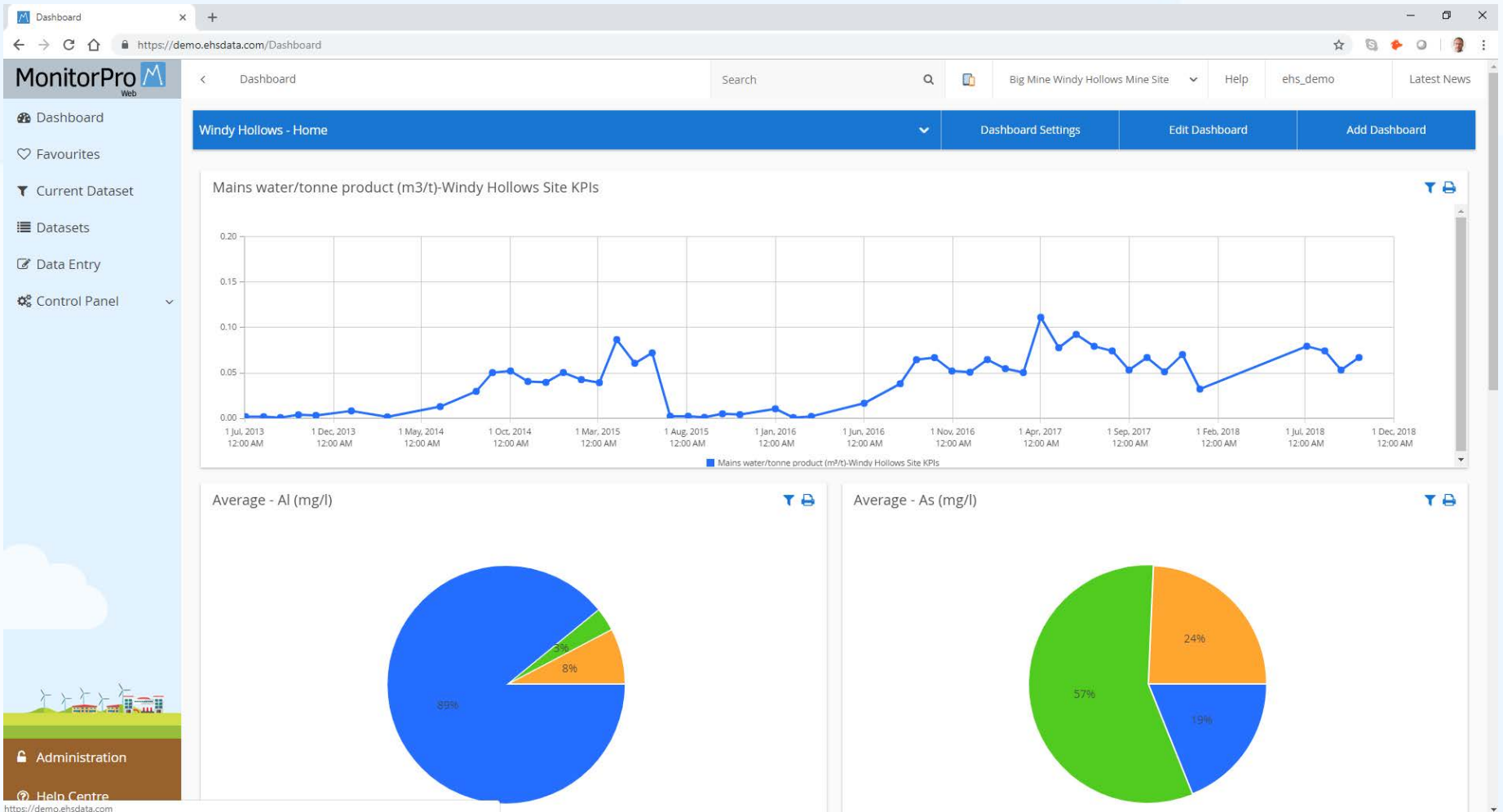
Screen shots from the software

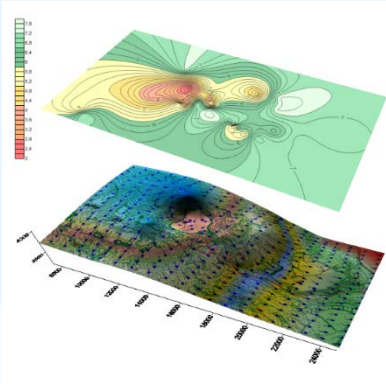
Works on any web browser, in any language. Named users for user rights and audit logs



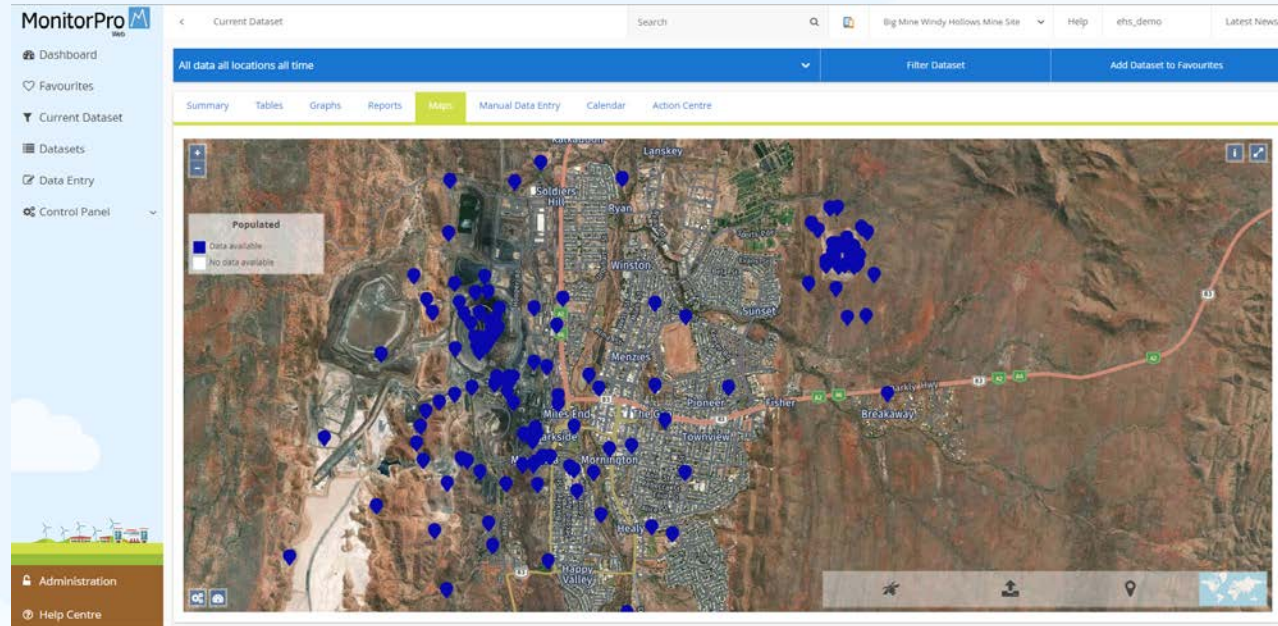
The screenshot shows a web browser window with the address bar displaying `https://demo.ehsdata.com/login/login.aspx?ReturnUrl=%2f`. The page content includes the MonitorPro Web logo at the top, followed by a "Sign in" heading. Below this are two input fields: the first contains the text "ehs_demo" and the second contains a masked password "*****". A checkbox labeled "Remember me next time." is positioned below the password field. A blue "Sign in" button is followed by the text "- or -" and a white "MP-Field" button. At the bottom left of the form area, there is a language dropdown menu set to "English (UK)" and the text "MP-Web Version 14.0.4758". At the bottom right, there is a logo for "CERT". The background of the page features a stylized landscape with mountains, trees, and industrial buildings with wind turbines.

Each user can have as many dashboards they like. User defined

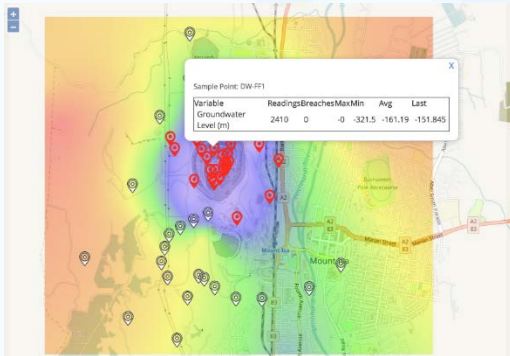




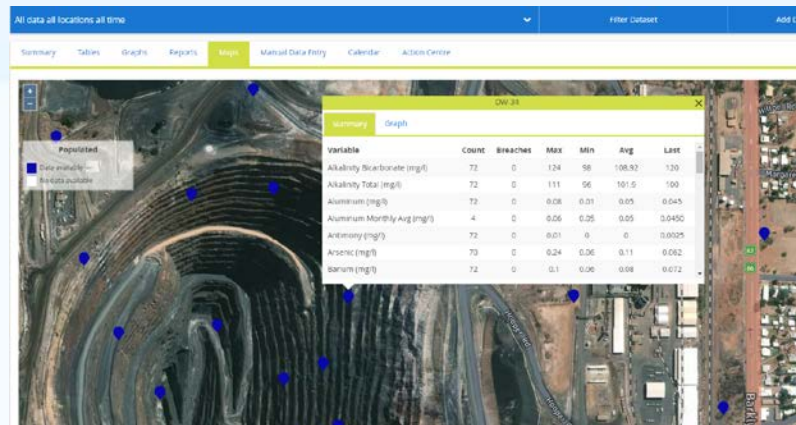
Contour: Groundwater & pH



View your sample points in maps or satellite imagery.



Heat Map – Ground Water Levels



Create table or graphs right in the map.

Harvest and import data from almost any source:

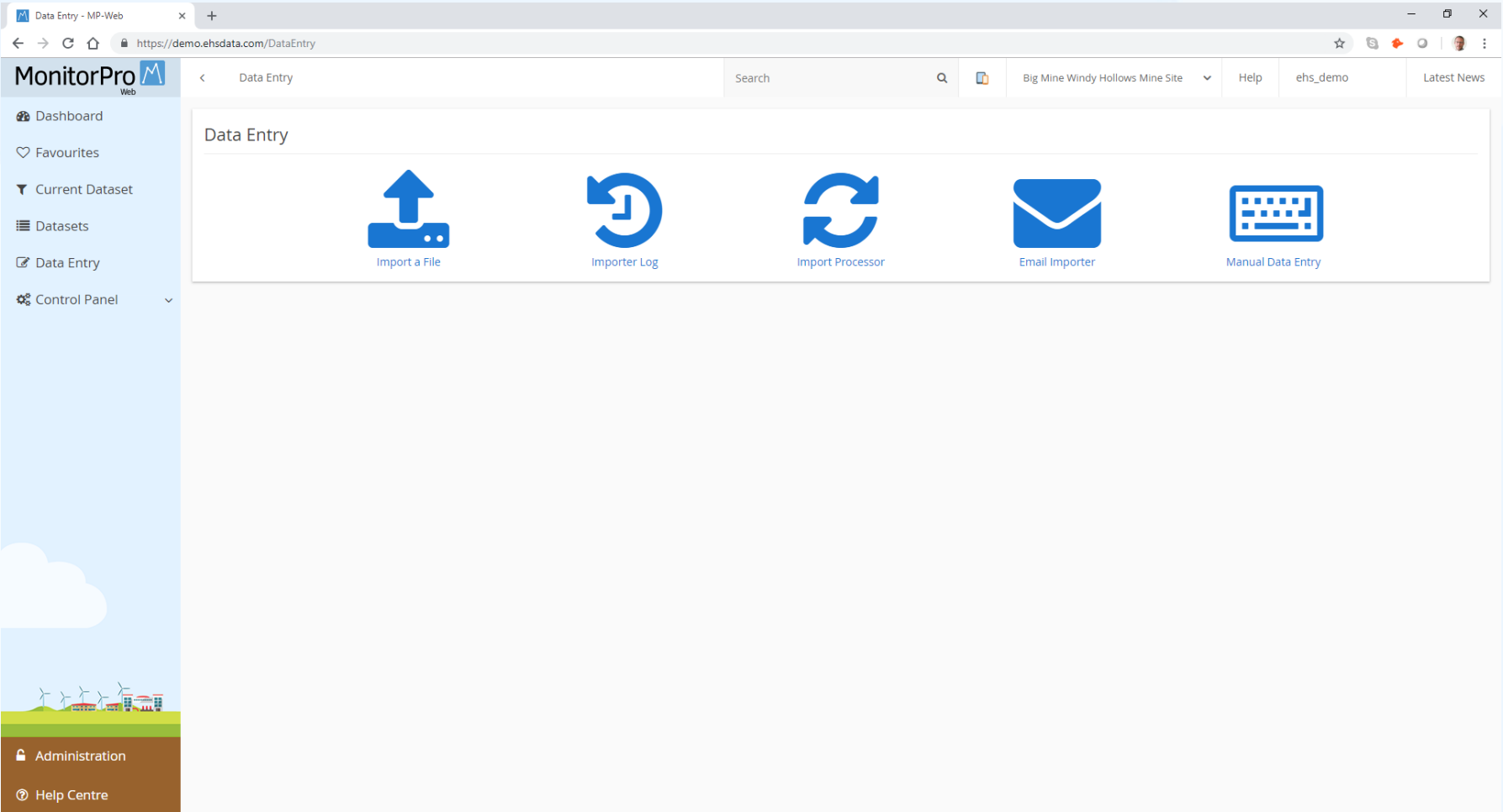
- Import directly from digital data acquisition tools
- Links to SAP, Pi and other external databases
- Extract from email attachments
- Upload Microsoft and Google spreadsheets
- Manual data entry
- MonitorPro field application

All with automatic validation and alerts.



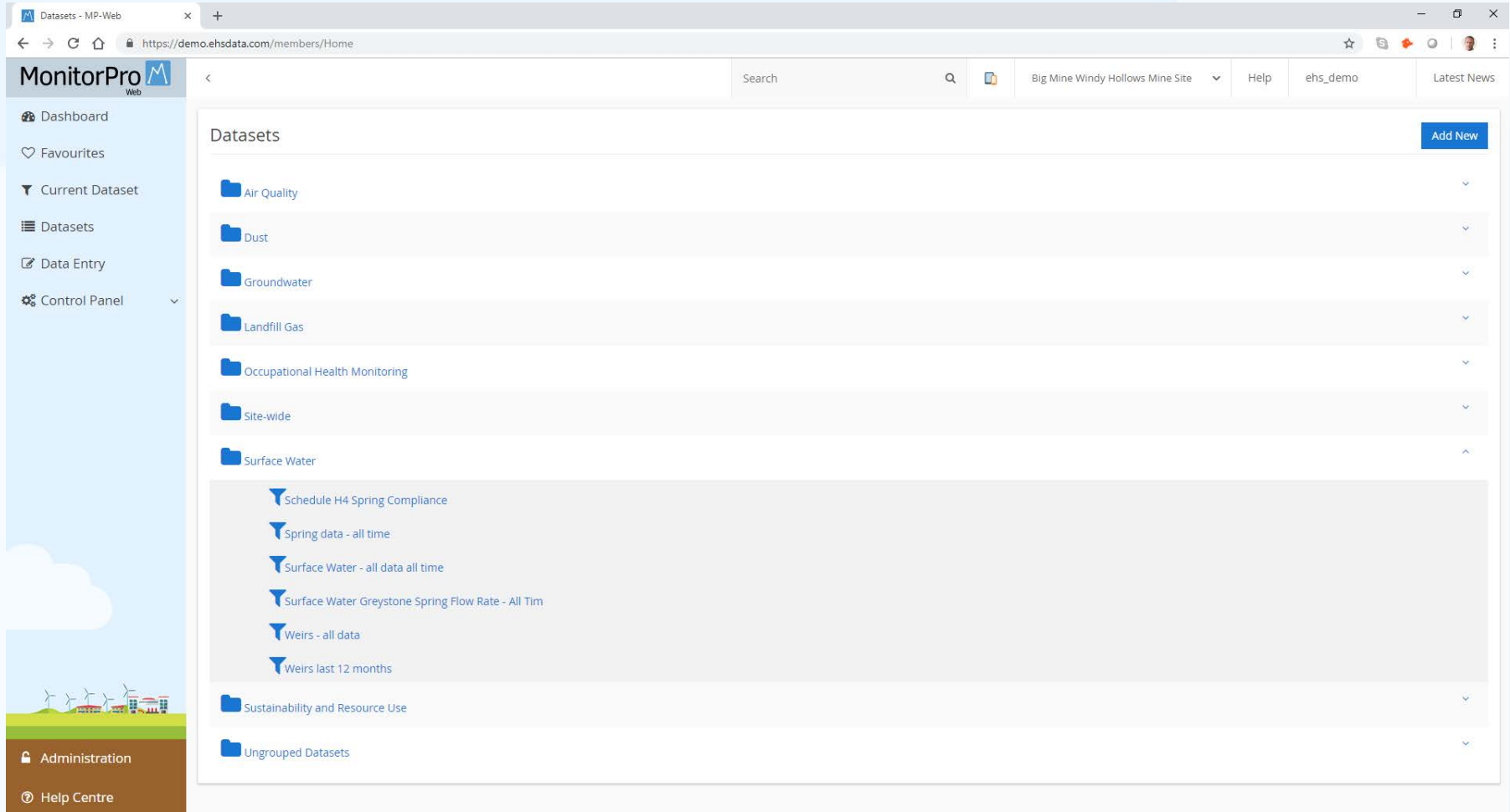
Different ways to enter data

DB-BD connection, Email directly into MonitorPro, File imports, manual data entry



All type of datasets and sources

Can handle ALL types of data, Air, Water, Land, Noise, Weather.....



The screenshot displays the MonitorPro Web interface. The browser address bar shows the URL <https://demo.ehsdata.com/members/Home>. The interface includes a search bar, a site dropdown menu set to "Big Mine Windy Hollows Mine Site", and a "Latest News" link. The left sidebar contains navigation options: Dashboard, Favourites, Current Dataset, Datasets, Data Entry, and Control Panel. The main content area, titled "Datasets", features an "Add New" button and a list of dataset categories with expandable sub-items:

- Air Quality
- Dust
- Groundwater
- Landfill Gas
- Occupational Health Monitoring
- Site-wide
- Surface Water
 - Schedule H4 Spring Compliance
 - Spring data - all time
 - Surface Water - all data all time
 - Surface Water Greystone Spring Flow Rate - All Tim
 - Weirs - all data
 - Weirs last 12 months
- Sustainability and Resource Use
- Ungrouped Datasets

At the bottom of the sidebar, there are links for "Administration" and "Help Centre".

Filter your selection

Quick and easy way to select what data to view

The screenshot displays the MonitorPro web application interface. The browser address bar shows the URL <https://demo.ehsdata.com/SelectionEditor>. The application title is "Groundwater All This Year - MP-". The current dataset is "Groundwater All This Year".

The interface includes a navigation sidebar on the left with the following menu items: Dashboard, Favourites, Current Dataset, Datasets, Data Entry, and Control Panel. The main content area is titled "Groundwater All This Year" and features a search bar and a "Current Dataset" dropdown menu. Below the search bar, there are buttons for "Show All", "Apply Filter", "Save", "Cancel", and "Delete".

The "Filter by the following Date Type" section is active, showing the following options:

- Quick options
- Date range to consist of the last whole
- Date range to consist of the last
- Fixed Date Range

The "Date Sampled" dropdown is set to "Last Year". The "Date range to consist of the last" option is selected, with the date range set to "1" Day(s).

The "Data Sources" section is expanded, showing the following options:

- 24-6885
- ALS
- Analyser
- Calculated
- Contract Lab
- DEF Contractors
- Data Transfer
- ERP
- Eurofins
- Example Source
- Field Tests
- Field reading
- Flow meter
- GA2000
- GA2000Plus
- GA5000
- HH meter
- Inspection
- Logger
- Martin Labsx

The "Sample Type" section is expanded, showing the following options:

- Duplicate
- Field
- No Sample Type
- Pinto Valley - AZPDES Qrt/GenChem MG2-8b/MPO-1b
- Travel Blank
- Triplicate

The "Location" section is expanded, showing the following options:

- Groundwater Boreholes
- Abstraction Wells
- DW-20R
- DW-26
- DW-27
- DW-28
- DW-31
- DW-32
- DW-34
- DW-36R
- DW-39
- DW-40
- DW-41
- DW-42
- DW-49
- DW-50R
- DW-51
- DW-52
- DW-53
- DW-54

The "Variable" section is expanded, showing the following options:

- Cyanide measures
- Cyanide WAD (mg/l)
- EA Draft - Schedule H4 Spring Release Parameters
- Aluminum (mg/l)
- Antimony (mg/l)
- Arsenic (mg/l)
- Beryllium (mg/l)
- Boron (mg/l)
- Cadmium (mg/l)
- Calcium (mg/l)
- Chloride (mg/l)
- Chromium (mg/l)
- Copper (µg/l)
- Fluoride (mg/l)
- Lead (mg/l)
- Magnesium (mg/l)
- Manganese (mg/l)
- Mercury (mg/l)
- Nickel (mg/l)
- Nitrate (mg/l)

The "Administration" and "Help Centre" links are visible in the bottom left corner of the sidebar.

Summary of your selection

Summary of your selection and access all functionality

The screenshot displays the MonitorPro web application interface. The browser address bar shows the URL: <https://demo.ehsdata.com/members/Default.aspx?SELID=7>. The page title is "Current Dataset - MP-Web".

The main content area is titled "Groundwater All This Year" and includes a search bar, a dropdown menu for "Big Mine Windy Hollows Mine Site", and buttons for "Filter Dataset" and "Add Dataset to Favourites".

The navigation menu on the left includes: Dashboard, Favourites, Current Dataset, Datasets, Data Entry, Control Panel, Administration, and Help Centre.

The summary dashboard displays the following data points:

Metric	Value
Date Sampled	From 01/01/2017 00:00 To 31/12/2017 23:59
By Date Query	Date Sampled
Earliest Data Point	01/01/2017 00:00
Latest Data Point	31/12/2017 00:00
Number of Data Points	16631
Number of Data Points with Breaches	339
Number of Sample Points with Data	59
Number of Variables with Data	36

Run standard or special reports on a selected data set

15-20 standard reports but also special reports are available. Create a report with a click

The screenshot displays the MonitorPro web application interface. The browser address bar shows the URL <https://demo.ehsdata.com/members/Default.aspx>. The page title is "Current Dataset - MP-Web". The main navigation bar includes "Current Dataset", "Search", "Big Mine Windy Hollows Mine Site", "Help", "ehs_demo", and "Latest News". The left sidebar contains navigation options: Dashboard, Favourites, Current Dataset, Datasets, Data Entry, Control Panel, Administration, and Help Centre. The main content area is titled "Groundwater All This Year" and features a "Filter Dataset" button and an "Add Dataset to Favourites" button. Below this, a horizontal menu highlights the "Reports" section. The Reports section lists several report types, each with three icons representing different file formats (PDF, Excel, Word):

- Compliance Highlighting Report
- Compliance report
- Grid paged by date report
- Grid paged by sample point report
- Grid paged by variable report
- Statistics by variable
- Summary by variable report

At the bottom left, there is a "Help Centre" link with the URL <https://demo.ehsdata.com>. The EHS DATA logo is visible in the bottom right corner.

Manage your obligations

Never miss a permit or obligation breach again. MonitorPro will alert

The screenshot shows the MonitorPro web application interface. The browser address bar displays the URL <https://demo.ehsdata.com/members/Obligations.aspx>. The page title is "Obligations - MP-Web". The navigation menu on the left includes: Dashboard, Favourites, Current Dataset, Datasets, Data Entry, Control Panel, Administration, and Help Centre. The main content area is titled "Obligations" and contains a table with the following data:

Name	Ref Number	Type	Reg Body	Issue date	Review date	HyperLink	Report	Calendar	
Environmental Authorisation Permit Part A	uksi 2010-675	Permit	Environment Agency	01/01/2014	01/06/2015	EA Permit			Edit
Environmental Authorisation Draft Part B	MIN102700011	Permit	EPA	01/01/2010	01/01/2016	Draft EA Permit - WindyHollows			Edit
BigMine Corp. Strategic Sustainability Targets	BMCUS001	Corporate Standard	Corporate Management	01/09/2015	01/01/2016	BigMine Corp. Strategic Sustainability Targets			Edit

An "Add new Obligation" button is located at the bottom right of the table area.

MonitorPro can email relevant staff if there is a breach, or any other issues with your monitoring.

From: MP-5 Messaging
To: [Matt Silk](#)
Subject: Automated alert for imported file "MP-Field Weekly Lab : 2016-01-18" to MP5_2013_DEMO
Date: 27 April 2016 14:09:27

Email Alert

EBR: Breaches_MP-FieldWeeklyLab2016-01-18_27042016140921

File:MP-Field Weekly Lab : 2016-01-18

Breaches

Date	Site	Sample Point	Variable	Level Name	Limit	Reading
24 January 2016 14:06:00	Groundwater Full	BMW-1	pH field	Multi Sample Point T Breach	> 1	10

Warning Breaches

Date	Site	Sample Point	Variable	Level Name	Limit	Reading
24 January 2016 14:06:00	Groundwater Full	BMW-1	pH field	pH Limits Mean	> 8.5	10
24 January 2016 14:06:00	Groundwater Full	BMW-1	pH field	pH Limits Mean +2	> 9	10

Internal Breaches

Date	Site	Sample Point	Variable	Level Name	Limit	Reading
24 January 2016 14:06:00	Groundwater Full	BMW-1	pH field	pH Limits Mean +3	> 7.955	10

Check your status reports

Quick summary on how compliant the company is.

CrystalReportObligation.aspx

1 / 1

Obligation Status Report

From 15 Nov 2017 to 15 Nov 2018

MonitorPro

Obligation Name : Environmental Authorisation Draft Part B
 Type : Permit
 Issuing Authority : EPA

Conditions	Compliance Data Points	Number of Breaches	% Compliant	Monitoring Records Expected	Monitoring Records Obtained	% Schedules Complete	Tasks Run	Tasks Complete	% Tasks Complete
Schedule B6 - Residential Ambient Air	97	46	52.58%	432	0	0.00%	0	0	0.00%
Schedule C24 - Mineral Concentrate Management	82 270	2 399	97.08%	N/A	N/A	N/A	0	0	0.00%
Schedule C33 - Bio-Remediation Pads	N/A	N/A	N/A	N/A	N/A	N/A	1	1	100.00%
Schedule G - Noise and Vibration	1 704	892	47.65%	N/A	N/A	N/A	N/A	N/A	N/A
Schedule H4 - Contaminant Release to Waters	642	161	74.92%	N/A	N/A	N/A	1	0	0.00%
Schedule H33 - Groundwater	1 650	391	76.30%	5 016	708	14.11%	4	1	25.00%
Schedule I - Sewage Treatment	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Schedule B3 - Stack Emissions	0	0	100.00%	367	0	0.00%	0	0	0.00%
Landfill Gas Compliance	1 674	409	75.57%	N/A	N/A	N/A	N/A	N/A	N/A

Number of Conditions : 9

Printed Date: 15/11/2018

Page 1 of 1

EHS DATA

MCERTS Cert. no. Sira MC090140/00



Create your own compliance limits to monitor

Obligations change? Easy to change and set up new obligation and compliance limits.

The screenshot shows a web browser window with the URL <https://demo.ehsdata.com/members/Compliancewebform.aspx>. The page title is "Compliance - MP-Web". The interface includes a navigation menu on the left with options: Dashboard, Favourites, Current Dataset, Datasets, Data Entry, and Control Panel. The main content area is titled "Compliance" and displays a grid of monitoring items, each with a blue wrench icon:

- Drinking Water Compliance
- HR Measures
- LD Test
- Perimeter Gas Compliance
- Schedule B3 - Stack Compliance
- Schedule B6 - Residential Dust Gauge Compliance
- Schedule C24 Concentrate Management - Particulates
- Schedule G - Noise Compliance
- Schedule H33 Groundwater Compliance
- Schedule H4 Spring Compliance
- Site Total Energy Useage
- Add new Compliance

At the bottom of the page, there is an "Administration" section and a "Help Centre" link with the URL <https://demo.ehsdata.com>.

SAMARCO CASE STUDY

- November 5th 2015
- Clean up programme – Crisis Management
- Imperial Mount Polley recommendation
- External labs control – avoid redundancies
- Flexibility
- Baseline

Common problem

- Lack of background data
- Unverified background data
- Unclear responsibility
- Delay in finding leakages
- Not knowing historic situation

Challenges

- You might need to prove status before operations or accidents
 - Are you responsible for ALL contaminations
- You might need to prove accuracy of data
 - Was it collected at the right place at the right time?
- You might need to present results on the fly
- You might need to prove that no one has tempered with the data

MonitorPro

Contact us today for more information

EHS Data Limited (HQ)

Halifax Court
Fernwood Business Park
Newark-on-Trent
Nottinghamshire
NG24 3JP
England, UK

Telephone +44 (0) 845 388 2458

Email enquiries@ehsdata.com

Buenos Aires Office

Javier A. Murdocca
Sales Agent

Telephone: +54 11-2-0898264

Mobile: +54 (9) 11-3-570-2805

Email: javier.murdocca@ehsdata.com