QSCad Siteworks

QSCad v3 Siteworks takes Cut and Fill Measurement to a whole new level.

	QSCad	?
SITEWORKS SETUP		
Overlay and Align Existing and Proposed drawings	✔	❏
Specify the calculation grid centres to suit the project/site	✔	❏
Specify the centres at which to sample contours	✔	❏
Specify the minimum number of points acceptable for the measurement of an area	✔	❏
Select the depths categories to be used for excavation measurement with presets for		
SMM7	✔	❏
CESMM3	✔	❏
MMHW(4)	✔	❏
POM(I)	✔	❏
ARM3	✔	❏
Specify the depth categories to be used for filling measurement	✔	❏
Specify which siteworks information will be displayed together with colours etc.	✔	❏
Specify Low and High parameters for siteworks information to trap errors	✔	❏
EXISTING SITE INFORMATION		
Existing Levels - Spot Heights		
Enter existing levels by selecting spot heights on the CAD drawing	✔	❏
Enter existing levels manually by identifying where they apply	✔	❏
Specify an existing level for a user-defined area	✔	❏
Amend previously entered levels	✔	❏
Delete previously entered existing levels by selecting individual levels	✔	❏
Delete previously entered existing levels within a user-defined area	✔	❏
Delete all previously entered existing levels	✔	❏
Import Finished Levels from a previous drawing as Existing Levels	✔	❏
Existing Levels - Contours		
Enter existing levels by selecting and importing Contours	✔	❏
Enter existing levels by tracing/drawing Contours	✔	❏
Interpolate Contours to the levels grid	✔	❏
Amend previously entered Contours	✔	❏
Delete previously entered Contours	✔	❏
Topsoil Depths		
Enter topsoil depths by selecting depths on the CAD drawing	✔	❏
Enter topsoil depths manually by identifying where they apply	✔	❏
Specify a user-defined area(s) where topsoil depths apply	✔	❏
Amend previously entered topsoil depths	✔	❏
Delete previously entered topsoil depths	✔	❏
Minimum Site Strip		
Enter minimum strip depths by selecting depths on the CAD drawing	✔	❏
Enter minimum strip depths manually by identifying where they apply	✔	❏
Specify a user-defined area(s) where minimum strip depths apply	✔	❏
Amend previously entered minimum strip depths	✔	❏
Delete previously entered minimum strip depths	✔	❏
Water Table Levels		
Enter water table levels by selecting depths on the CAD drawing	✔	❏
Enter water table levels/depths by identifying where they apply	✔	❏
Specify a user-defined area(s) where water table levels apply	✔	❏
Amend previously entered water table levels/depths	✔	❏
Delete previously entered water table levels/depths	✔	❏

	QSCad	?
Rock Levels		
Enter rock levels by selecting depths on the CAD drawing	✔	❏
Enter rock levels/depths manually by identifying where they apply	✔	❏
Specify a user-defined area(s) where rock levels apply	✔	❏
Amend previously entered rock levels/depths	✔	❏
Delete previously entered rock levels/depths	✔	❏
General		
Import levels information from a file created in another drawing	✔	❏
Export levels information to a file for use in another drawing	✔	❏
PROPOSED CONSTRUCTION AND LEVELS		
Construction Details		
Create multiple user-defined libraries of standard Construction Details	✔	❏
Create a user-defined drawing library of standard Construction Details	✔	❏
Stores complete Construction Build-up including Descriptions and Depths to enable complete construction to be measured in one action	✔	❏
Standard Library of Descriptions to assist in creation of Construction Build-ups	✔	❏
Automatic inclusion of compaction items for granular materials	✔	❏
Measurement		
Siteworks area measurement using mouse clicks as coordinates	✔	❏
Siteworks area measurement using 'snapping' functions	✔	❏
Undo last point facility	✔	❏
Siteworks area measurement by copying/converting a 'Basic' area	✔	❏
Assign Finished levels by selecting levels on the CAD drawing	✔	❏
Assign Finished levels manually by identifying where they apply	✔	❏
Assign Finished levels by interpolation between two known levels	✔	❏
Measurement Validation / Checking		
Display Interpolated Finished Levels for a selected Siteworks Areas	✔	❏
Display Interpolated Finished Levels for all Siteworks Areas within a user-defined area	✔	❏
Display Interpolated Finished Levels for all Siteworks Areas	✔	❏
Display Interpolated Finished Levels points that are more than a specified distance from an entered value for selected Siteworks Areas	✔	❏
Display Interpolated Finished Levels points that are more than a specified distance from an entered value for all Siteworks Areas within a user-defined area	✔	
Display Interpolated Finished Levels points that are more than a specified distance from an entered value for all Siteworks Areas	✔	❏
Obtain all levels information for a selected random point on the drawing	✔	❏
Calculate average Existing Level for a user-defined area	✔	❏
Calculate average Topsoil Depth for a user-defined area	✔	❏
Calculate average Minimum Strip Depth for a user-defined area	✔	❏
Calculate average Water Table Level for a user-defined area	✔	❏
Calculate average Rock Level for a user-defined area	✔	❏
RESULTS		
Create a Detailed Summary of measured items	✔	❏
Select measurement layers to include in the Summaries	✔	❏
Change the measurement layers included whilst viewing the Detailed Summary	✔	❏
Full Audit trail from Summary back to measurements with Show Me facility	✔	❏
Print Detailed Summary	✔	❏
Export Detailed Summary to Excel	✔	❏

RESULTS (Cont'd.)

Feature	QSCad	?
Produce a Draft BQ in SMM7 format	✔	☐
Produce a Draft BQ in CESMM3 format	✔	☐
Produce a Draft BQ in MMHW(4) format	✔	☐
Produce a Draft BQ in POM(I) format	✔	☐
Produce a Draft BQ in ARM3 format	✔	☐
Separate Minimum Site Strip quantities in Draft BQ	✔	☐
Annotate Descriptions in Draft BQ	✔	☐
Round quantities in Draft BQ	✔	☐
Create and print a Grid Point Schedule detailing all known information for each and every grid point	✔	☐

GRAPHICAL OUTPUT

Siteworks Information

Feature	QSCad	?
Create, display and print Grid Point Information on the drawing	✔	☐
Create, display and print Cut and Fill Lines for selected Siteworks Areas	✔	☐
Create, display and print Cut and Fill Lines for all Siteworks Areas	✔	☐

Legend

Feature	QSCad	?
Create one or more legends from the measurements within the drawing	✔	☐
Select which items should appear in the legend	✔	☐
Define the symbol size and the text height for legend items	✔	☐
Position the legend on the drawing	✔	☐
Move a legend	✔	☐
Delete individual or multiple items from a legend	✔	☐

Drawing Header

Feature	QSCad	?
Position a drawing header on the drawing	✔	☐
Choose to include Project Title, Drawing Title, Visible Layers and Current Date	✔	☐
Move a drawing header	✔	☐
Edit a drawing header to select fonts, etc.	✔	☐

Printing a Drawing

Feature	QSCad	?
Print to any Windows Printer	✔	☐
Print Complete drawing	✔	☐
Print an Area of the drawing	✔	☐
Print the Current View	✔	☐
Print to Fit Paper	✔	☐
Print to Scale	✔	☐
Print to span several sheets	✔	☐
Full CAD engine printing functionality	✔	☐
User defined margins	✔	☐
User defined line widths	✔	☐
Window and Full Page Print Previews	✔	☐

Siteworks Graphics

Shade and Print the plan to show values for...

Feature	QSCad	?
Existing Levels	✔	☐
Topsoil Depths	✔	☐
Minimum Site Strip Levels	✔	☐
Water Table Levels	✔	☐
Rock Levels	✔	☐
Finished Levels	✔	☐
Formation Levels	✔	☐
Cut and Fill	✔	☐

Create and Print a 3D model, Section or Contour display to show...

Feature	QSCad	?
Existing Levels	✔	☐
Topsoil Depths	✔	☐
Minimum Site Strip Levels	✔	☐
Water Table Levels	✔	☐
Rock Levels	✔	☐
Finished Levels	✔	☐
Formation Levels	✔	

DATA ANALYSIS

Feature	QSCad	?
Allocate user-defined filter(s) as part of the Measurement process	✔	☐
Allocate user-defined filter(s) retrospectively by selection	✔	☐
Allocate user-defined filter(s) retrospectively by defining an area	✔	☐
Display details of any allocated user-defined filters on the Detailed Summary	✔	☐
Display only measurements that meet user-defined filters criteria on Detailed Summary	✔	☐
Special 'Select' Layer which may be populated with similar items or selected items	✔	☐
Detailed Summary of items copied to 'Select' layer	✔	☐
Consolidated Summary of items copied to 'Select' layer	✔	☐
Graphical Output of items copied to 'Select' layer	✔	☐
Ability to carry out 'what if' calculations by moving and recalculating Siteworks Areas	✔	☐

EDITING MEASUREMENTS

Feature	QSCad	?
Edit a single measurement by selecting	✔	☐
Edit multiple measurements by selecting	✔	☐
Edit multiple measurements by defining an area	✔	☐
Edit all items with the same description	✔	☐
Move measured items	✔	☐
Copy measured items	✔	☐
Rotate measured items	✔	☐
Delete a single measurement by selecting	✔	☐
Delete multiple measurements by selecting	✔	☐
Delete multiple measurements by defining an area	✔	☐
Recycle Bin layer for all deleted measurements	✔	☐
Restore deleted items from the recycle bin	✔	☐
Edit Text	✔	☐
Change Text Sizes	✔	☐
Edit a point in an area measurement	✔	☐

RECALCULATION

Feature	QSCad	?
Recalculate selected Siteworks Areas	✔	☐
Recalculate selected Siteworks Areas within a user-defined area	✔	☐
Recalcualte all Siteworks Areas	✔	☐

OPTIMISATION

Feature	QSCad	?
Optimise the Proposed Levels by Volume (balancing Cut and Fill)	✔	☐
Optimise the Proposed Levels by Cost	✔	☐
Specify the following Optimisation Settings...		
The centres above and below the proposed levels to use for optimisation calculations	✔	☐
Excavation costs for each depth category	✔	☐
Excavated material Disposal Costs	✔	☐
Minimum Site Strip Disposal Costs	✔	☐
Extra over cost for excavating below Water Table level	✔	☐
Extra over cost for breaking up Rock	✔	☐
Additional Filling Types for each type of construction	✔	☐
Filling Costs for filling under each type of Construction	✔	☐
Recalculate ten possible siteworks scenarios based on Optimisation Settings	✔	☐
View an Optimisation summary detailing the quantities and costs of the Cut and Fill based upon the Optimisation Settings	✔	☐

HELP SYSTEM

Feature	QSCad	?
Windows Help system including index and search facilities	✔	☐
Show Me' links from Help system to System Videos located on the QSCad website	✔	☐
Manual available in PDf format	✔	☐

USER MANAGEMENT

Feature	QSCad	?
Release the Siteworks module licence so that others may use it.	✔	☐
Find out who is using the Siteworks module licence.	✔	☐

Masterbill