



GEOSOFT TECHNICAL SUPPORT

Best Software Solution from Geotechnical Specialist

GeoSmart II

-----All you need in your Soil Investigation Works

GeoSmart II is a powerful software tool for all the ground investigation workings. The software is user-friendly with powerful functions on all the soil investigation reporting works such as soil borelog and soil cross section drawing, report summary, invoice tool and AGS transport tool.

Data Entry:

✚ Data Input in an Excel file. Easy input following the title of the column.

✚ One project for one file, one sheet for one borehole. And it is also easy to shear the data by copy and paste the sheets between the data files.

✚ The data file is a normal Excel file which can be copied to any PC to do the data input without any software license.

Data Sheet for Borelog & Cross Section	
CLIENT	
Project	
Location	
Borehole No.	
Depth	
Weathering	
SPT No.	
SPT Results	
SPT Details	
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	32
33	34
35	36
37	38
39	40
41	42
43	44
45	46
47	48
49	50
51	52
53	54
55	56
57	58
59	60
61	62
63	64
65	66
67	68
69	70
71	72
73	74
75	76
77	78
79	80
81	82
83	84
85	86
87	88
89	90
91	92
93	94
95	96
97	98
99	100

Summary Function:

✚ Provide summaries of project data based on the data input, the summaries can be used as invoice information of report directly.

✚ Summary of Borehole Drilling, Field sampling, field-testing.

✚ Summary of Lab Test Result or Lab Test Quantities.

✚ More summary table can be customize based on the data file.

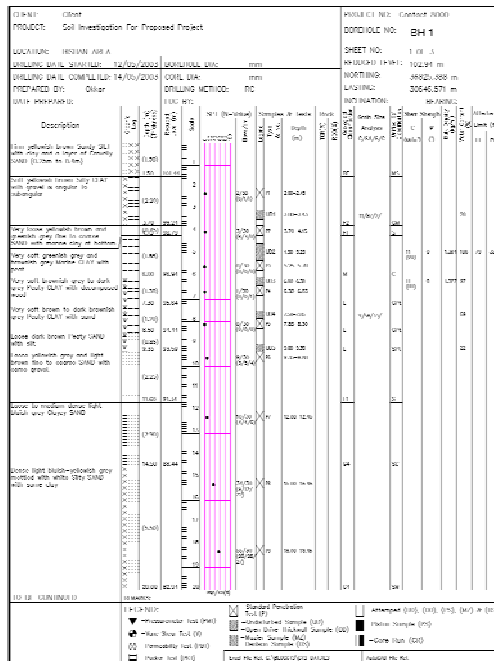
✚ Summaries in Excel data file also, can be printed out directly.

TABLE 1																			
SUMMARY OF BOREHOLE DRILLING, FIELD SAMPLING, FIELD TESTING & INSTRUMENT INSTALLATION																			
Project No : Contact 8000										Project : Soil Investigation For Proposed Project									
BH No.	Soil Drilling (m)	Rock Coring (m)	Terminated Depth (m)	D (m)	UD (m)	UD (m)	UD (m)	UD (m)	UD (m)	Field Sampling	Field Testing	Instrument Installation	Field Sampling	Field Testing	Instrument Installation	Field Sampling	Field Testing	Instrument Installation	Field Sampling
BH1	31.34	0.00	31.34	-	5	-	-	-	-	14	-	-	-	-	-	-	-	-	-
BH2	36.72	0.00	36.72	-	5	-	-	-	-	18	-	-	-	-	-	-	-	-	-
BH3	37.35	0.00	37.35	-	5	-	-	-	-	16	-	-	-	-	-	-	-	-	-
BH4	12.04	9.46	21.50	-	-	-	-	-	-	6	1	3	-	-	-	-	-	-	-
BH5	10.00	0.00	10.00	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	9
BH6	9.50	0.00	9.50	-	-	-	-	-	-	3	1	-	-	-	-	-	-	-	-
KEY:																			
D - Disturbed Sample					UD - Undisturbed Sample (Thin Wall)					SPT - Standard Penetration Test					WSP - Water Standpipe				
UD - Undisturbed Sample (Thick Wall)					PS - Piston Sample					V - Field Vane Shear Test					CP - Casagrande Piezometer				
MZ - Mazier Sample					DS - Denison Sample					PMT - Pressurometer Test					PP - Piezometric Piezometer				
WS - Water Sample					PBT - Permeability Test					PKT - Packer Test					I - Inclinator				






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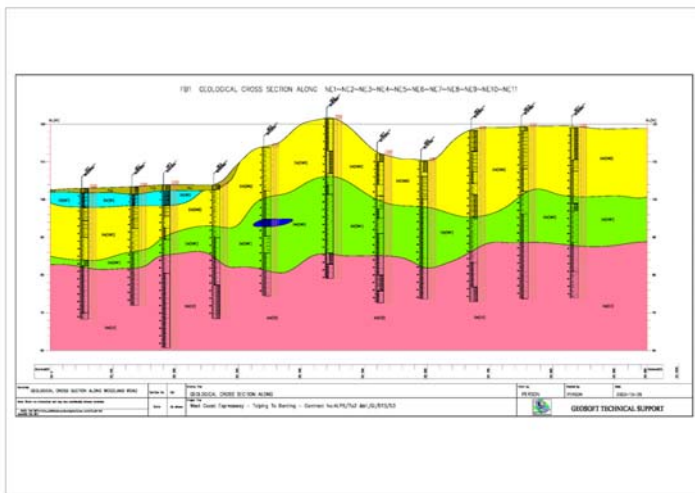
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BORELOG








Borelog And Cross section Function:

-  Automatic draw the borehole log in AutoCAD file by one click on the GeoSmart II menu. Save and print the file for report use directly.
-  Automatically create the soil cross section based on same data file. The cross section include soil logs and CPT logs and present in more than 10 layers in AutoCAD drawings. On and off any layers can show the different presentation of the cross section.
-  Provide AutoCAD hatch pattern for soil and rocks based on BS standard.
-  Borehole log format can be customize.
-  The output file is a normal AutoCAD file, which can be, edit and plotted to many different file type (.DWG, .DXF, .JPG, .PNG, .DWF...)



Smart AGS Transport Tool

-  Transfer data from GeoSmart Excel data file to AGS Excel data file.
-  Transfer data from AGS Excel data file to AGS format file.
-  Load relative data from AGS format file to GeoSmart II data sheet.
-  Open environment in AGS Excel file for user to add unlimited AGS group or user define AGS group.
-  Transport data between GeoSmart data sheet to KeyAGS Excel data File.

Sample Soil Report sheets can be download from www.geosoft.com.sg/download.htm

www.geosoft.com.sg Email: info@geosoft.com.sg



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GeoSmart Monitoring Tools

-----Geotechnical Monitoring Data Management System

GeoSmart Monitoring Tool is a powerful software tool for geotechnical monitoring data management and data reporting. You will find handling a big monitoring project is so easy with the software tool.

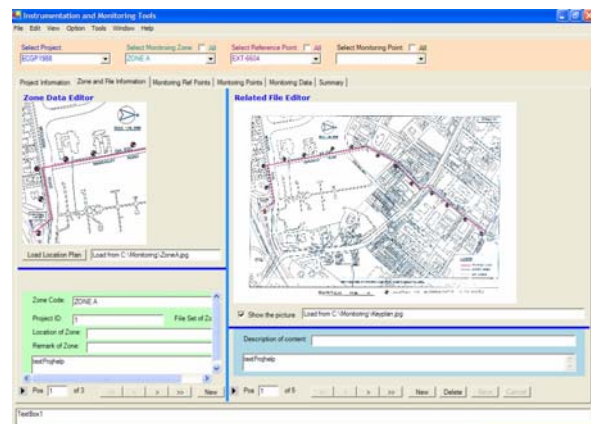
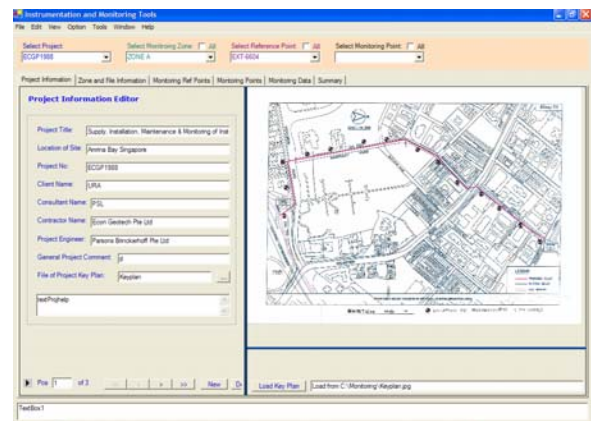
Key Feature of the Program:

Easy to handle the project related like location plan, installation details and soil condition of monitoring point.

Organize and handle the project information and monitoring data by project, zone, reference point and monitoring point.

Smart data entry system. Calculation formula built in the program, all the monitoring data curve will be automatically calculate and show by the program after data entry.

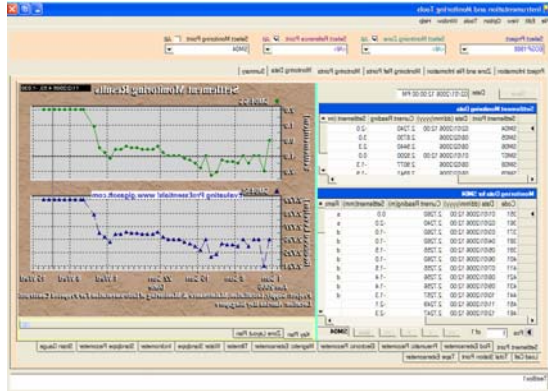
Flexible data entry, user can key in the daily monitoring data in an Excel file (All types of monitoring points in a Zone). And load the data to the monitoring database by one click.





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Monitoring Type:

Settlement point, Rod Extensometer, Pneumatic Piezometer, Electronic Piezometer, Magnetic Extensometer, Tiltmeter, Water Standpipe, Inclinator, Standpipe Piezometer, Strain Gauge, Load Cell, Total Station Point, Tape Extensometer.

Flexible Drawing View and Output:

Build in graph tool to show the monitoring data, the scale, legend and axis can be customize by user. Graph window can view in full screen, zoom in to show the data curve in details. The monitoring graph can export as an image file directly.

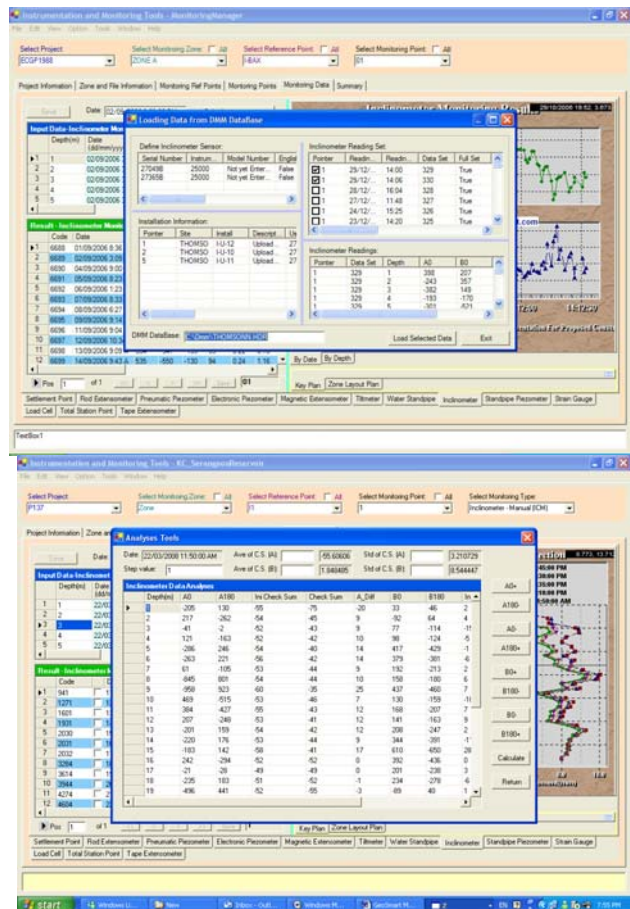
Powerful Software Tool for Inclinator Monitoring:

Load Inclinator data directly from inclinometer data files. Suitable for Sinco and Geokon equipments of data files. DMM files(.PRN, HDR, .MDB) .txt files and Excel file. Load the data for all instrument points at one time.

Attached Smart Check Sum Analyses Tool.

Output functions:

Print data & chart: Design the output scale and selected the dates to report, print out the graph and output the data in Excel file.





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Transfer inclinometer data to Excel:

Select and transfer one or all monitoring points data in a

Zone to Excel file for further implementation. (Include Data summary of the Zone)

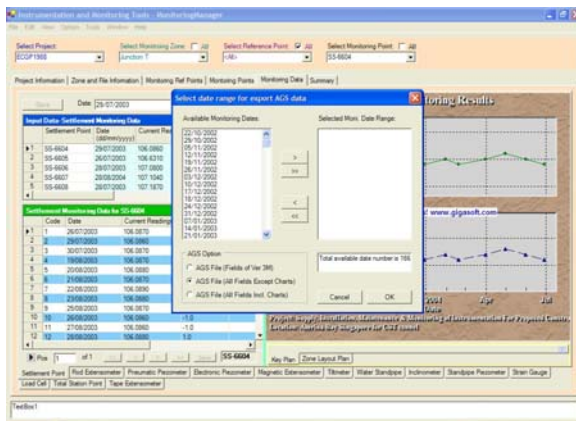
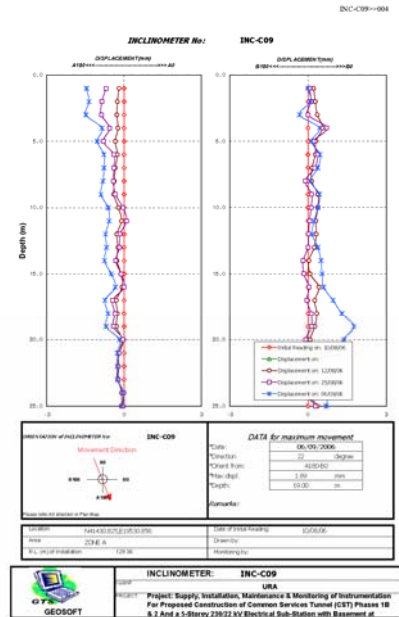
Other functions include Reset initial reading codes on selected dates or all dates. Change monitoring date for all depth.

Data Transfer Tools:

Create AGS file by select project, zone, monitoring point, date. Load AGS file to communicate with client side and update the database daily. GeoSmart AGS format include Graph chart information.

Create GDB file for LTA Project.

Powerful Claim Tools.



SUMMARY AND COMPARISON OF MONITORING RESULTS FOR THREE DAYS

PROJECT ID: SCUP1004

PROJECT NAME: Supply Installation, Maintenance & Monitoring of Instrumentation For Proposed Construction of Common Services Tunnel (CST) Phase 1B & 2 And a 5-Storey 230/22 kV Electrical Sub-Station with Basement at

POINT NAME	Depth (m)	Monitoring Results of Recent Date	Change of Date	NOTE
10-4004	10.00	-1.00	-1.00	
10-4005	10.00	-1.00	-1.00	
10-4006	10.00	-1.00	-1.00	
10-4007	10.00	-1.00	-1.00	
10-4008	10.00	-1.00	-1.00	
10-4009	10.00	-1.00	-1.00	
10-4010	10.00	-1.00	-1.00	
10-4011	10.00	-1.00	-1.00	
10-4012	10.00	-1.00	-1.00	
10-4013	10.00	-1.00	-1.00	
10-4014	10.00	-1.00	-1.00	
10-4015	10.00	-1.00	-1.00	
10-4016	10.00	-1.00	-1.00	
10-4017	10.00	-1.00	-1.00	
10-4018	10.00	-1.00	-1.00	
10-4019	10.00	-1.00	-1.00	
10-4020	10.00	-1.00	-1.00	

Instant Data Summary:

Create instant monitoring data summary table.

Select any three date to generate the date summary for select project or zone.

Set warning rang.



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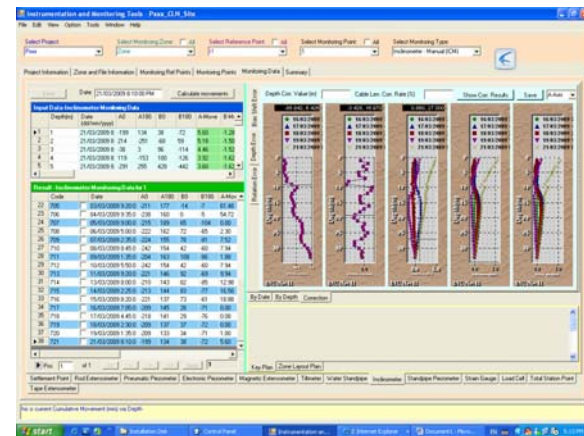
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Data Analyze Tools for Inclinator:

Depth Error Correction Tool.

Rotation Error Correction Tool

Bias Shift Error Tool.





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GeoSmart II User List (Singapore):

Soil & Foundation (Pte) Ltd
Soil Investigation Pte Ltd
OYO International (Singapore) Pte Ltd
Kwang Sing Engineering Pte Ltd
PSL Engineering Pte Ltd
Geo Dynamics Pte Ltd
CPG Consultants Pte Ltd
CPG Laboratories Pte Ltd
KISO-JIBAN Singapore Pte Ltd
Econ Geotech Pte Ltd
Jurong Consultants
GBAD Services Pte Ltd
Amberg & TTI Engineering Pte Ltd
AL Technologies (S) Pte Ltd
Associated Geotechnical Service Pte Ltd
United Soil Engineering Pte Ltd
FOSTA Pte Ltd
Tritech Engineering & Testing (S) Pte Ltd
V-Pile (S) Pte Ltd
Kimaro Geotechnical Engineering Pte Ltd

GeoSmart II User List (Malaysia):

IKRAM Services Sdn. Bhd (JB)
IKRAM Services Sdn. Bhd (KL)
IKRAM Services Sdn. Bhd (Sarawak)
IKRAM Services Sdn. Bhd (Penang)
IKRAM Services Sdn. Bhd (East Coast)
Strata Drill Sdn. Bhd
Jabatan Geosains & Mineral (JGM)
Test HQ Sdn.Bhd



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Central Soil Lab Sdn.Bhd

Fieldgeo Sdn.Bhd

GeoSmart II User List (Taiwan):

中聯工程顧問有限公司 (China United Engineering Consultant Co.Ltd)

大域工程顧問有限公司 (Geofield Engineering Consultant Co.Ltd)

GeoSmart II User List (Indonesia):

GOUW Tjie –Liong (GTL)

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Soil Mechanic Laboratory, Engineering Faculty University of Riau

WIRATMAN AND ASSOCIATES