**GeoInfo Tools Database User's Manual** 

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#### **GeoInfo Tools Database**



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## What Is the GeoInfo Tools Database?

GeoInfo Tools is a corporate or personal database solution for the mining and mineral exploration industry. Surface geochemistry samples, field observations, drill/trench/blast hole/underground log data and assay lab and XRF analysis data are managed in the GeoInfo Tools database, and tools are provide to analyze the data.

The complete information system offered by Geo-Information Solutions involves collecting field data using GeoInfo Mobile software (<u>www.GeoInfoMobile.com</u>) on tablet and handheld mobile computers, importing this data into the GeoInfo Tools database, and then importing assay results into the database to complete the data collection. The GeoInfo Tools database is then used to manage and facilitate analysis of the data. Each software solution can be used independently but the complete system provides a start to finish data management solution.

Database tools include;

- Query views queries present the data as needed for presentation and analysis, and direct linking via ODBC to these queries is supported by most 3<sup>rd</sup> party GIS, mine modeling and statistical software packages. Queries can be exported to Access, Excel or CSV format files. Queries are the foundation of work with your data.
- GeoInfo Mobile field data collection importers field data collected using GeoInfo Mobile software (<u>www.GeoInfoMobile.com</u>) on tablet and handheld computers is directly imported into the database.
- Lookup list validation tables data stored in the database is validated against lookup list validation table values providing integrity to each piece of information stored in the database. An Active field setting for each value in a lookup list allows users to customize visible lists by project. Lookup lists are exported then imported into GeoInfo Mobile so integrity rules are enforced in the field at the rock interface.
- Assay lab importers assay lab importers exist for most assay labs (and new ones are easily added) and portable XRF devices. Assays are loaded directly from assay lab files and each analysis is stored with sample number, element, unit, preparation, digestion, analysis method, fraction, batch, lab, load date and load file name.
- Assay results processing assay result tables are created for each project and users have the option of cutting less than detection values to the industry standard half the detection level, and also have the option to cut less that detection values to half the lowest detection level if multiple detection values exist for a single element-analysis method-digestion.
- View/Edit tools forms for geochemistry samples, field observations, drill hole logs, blast hole logs, trench logs, and underground working logs can be used to create, review and edit data.

- Coordinate re-projection coordinates stored in WGS84 datum are automatically converted to and from Latitude/Longitude (native GPS) and UTM.
- **3D coordinates** coordinate pairs for the start, end and center of each logged data interval in the database can be created from the collar coordinate and a survey log. A companion tool has been programmed for ArcGIS to allow creating attributed line segment intervals on maps using the 3D coordinates.
- **Reports** project reports for drill hole data are built-in, and a custom report tool allows users to create custom drill hole/trench reports with any data they choose to include. Reports can be printed or saved to PDF format.
- **Sample dispatch** dispatch is managed by the database and Excel spreadsheets and reports are automatically created to provide to the lab. Users have the option of randomizing samples for dispatch and analyses at the lab.
- **QAQC tools** QAQC data is stored in the database and tools are available for working with this data, which include QAQC reference value plot tools, randomized data plots, reanalysis tool, queries to compare the results, and automatic logging insertion settings.
- **Drill assay settings** analysis result order, decimal places and highlight values are set for each element of interest. Highlight settings provide highlighted assays in log forms and reports.
- **Best analyses** best analyses can be set up for each element in a project. Best analyses fields present the best available analysis for an element where more than one analysis/digestion method exists for the same sample. Unit of measure is set and calculations to that unit are automatic. Users have the option of setting a Cut Value limit if desired. Best analyses are where over limit results are assured of being used!
- Drill hole composites and equivalents elements for inclusion, highlight values, and equivalent element, metal price and recovery values are set so the user can log composite intervals after assay results have been loaded into the database. The log composite creation tool is interactive so users can play "what if" and see calculated results immediately. An auto-composite tool creates/logs composites for holes automatically based on user specified criteria.
- **Export** –queries can be exported by project, prospect, area, drill hole, or query. Exports can be to Access, Excel or CSV format.
- **Database replication** can be setup to allow automatic network or internet synchronization of multiple disconnected databases.

Data is managed by project so each project can have independent settings.

GeoInfo Tools is the foundation of a company's data system; it serves data to other analysis software tools.

## Hardware/Software Requirements

GeoInfo Tools requires Microsoft Access 2007 or later, which can run on Windows XP through Windows 11. A free runtime version of Microsoft Access can be used with GeoInfo Tools it will just have limited use beyond the tools provided in GeoInfo Tools (so no customization possible). Free Access 2016 runtimes can be downloaded and installed from here <a href="https://www.microsoft.com/en-us/download/details.aspx?id=50040">https://www.microsoft.com/en-us/download/details.aspx?id=50040</a> .

SQL Server is required for the SQL Server backend version. The free SQL Server Express version can be used with GeoInfo Tools databases less than 10 gigabytes; which is normally plenty of space for companies with multiple project. The free version has limited performance but GeoInfo Tools is designed to limit this issue as much as possible.

Some of the database tools require significant processing so a good computer is recommended; most important is hard drive speed. Database size is generally 0.5 to 6 gigabytes (SQL Server backend) so hard drive size in not too important. The database has been tested and works on lesser computers (and even low power Windows tablets) if needed, but it will be a little slower to work with.

## Installation

GeoInfo Tools is split database consisting of two databases.

The front-end application database, *GeoInfoTools\_Application.accdb*, contains all the application tools; this is the application that users work with. No original data is stored in the front-end application database, only temporary data tables, queries, forms and tools.

The backend database contains all the raw data tables and is only used to store data. The backend database can be either an Access database; *GeoInfoTools\_Backend\_CompanyName.mdb*, or an SQL Server database; *GeoInfoTools\_CompanyName*. This is the data and should be backed up regularly! The backend data tables are linked to the front-end application database so the backend is transparent to the users who work solely in the front end application. The backend database DOES NOT and SHOULD NOT be opened by users; the GeoInfo Tools front end application manages the backend.

## Install Microsoft Access

GeoInfo Tools frontend application requires Microsoft Access be installed. Users can use a full version of Access, 2007 to 2016 (also part of Office 365), or if users do not have Office installed a free runtime version of Access 2016 can be downloaded and installed here; <u>https://www.microsoft.com/en-us/download/details.aspx?id=50040</u>.

## Install GeoInfo Tools

Download and install the GeoInfo Tools Application, like *GeoInfoToolsInstaller\_v3.4b02.exe*. This installs the GeoInfo Tools application (into the *C*:\*GeoInfoTools* directory), add-ins (Coordinate Converter and Access Imagine), ODBC drivers, creates a program files shortcut to run GeoInfo Tools, and creates some required directories in the *C*:\*GeoInfoTools* directory.

## Upgrade GeoInfo Tools

After the latest version of the GeoInfo Tools Installer is installed as described above, minor updates are distributed as a single file upgrade. Download the latest GeoInfo Tools application (like GeoInfoTools\_Application\_v3.4b03.zip), unzip the GeoInfoTools\_Application.accdb file from the download, and replace C:\GeoInfoTools/GeoInfoTools\_Application.accdb with the new updated application.

## Access Backend Setup

Copy the provided GeoInfo Tools backend database, like GeoInfoTools\_Backend\_CompanyName.mdb, to the C:\GeoInfoTools\\_Management\Backend directory.

Open GeoInfo Tools from the Windows Program Files list (Pin to Start Menu for easy access). If prompted to "Link to SQL Server" select **No**. If not prompted click the Re-link button in GeoInfo Tools. In the file chooser dialog locate the backend database that was just copied to the *C:\GeoInfoTools\ Management\Backend* directory.

Link to SQL Server?		×
Do you want to link to an SQL Server back Access (.mdb) backend.	end? If No you will b	e linked to an
	Yes	No

### MaxLocksPerFile Registry Edit – Access Replicated Database Only

Replicated database synchronization errors related to **MaxLocksPerFile** are not an indication of a corrupt database. Registry settings need editing. Computers with replicated database need to edit the MaxLocksPerFile setting. MaxLocksPerFile errors usually shows up after a significant amount of assay data has been loaded into the database (lots of locks required), or if a user has not synchronized in a long time.

Change the registry as follows;

Change all MaxLocksPerFile setting values (default 9500) to 200,000 in your Registry as per this Microsoft support article <a href="http://support.microsoft.com/kb/815281">http://support.microsoft.com/kb/815281</a>, method 1. Note 64 bit OS system. Make sure to change all the MaxLocksPerFile entries in your registry not just the one Microsoft indicates. Use menu Edit-Find tool (starting at the top) in the RegEdit program to find and change all MaxLocksPerFile values. Edit values in Decimal not Hex.

\*note; to start regedit.exe in Windows, click the Windows Start (windows 7) or the search button (windows 10) then type regedit.exe in the search box at the bottom.

## SQL Server Backend Setup

#### Install SQL Server

If you are running the GeoInfo Tools SQL Server backend on a server with multiple users connected directly to a single backend database on the server (not replicated) then you will want to install SQL Server Enterprise or Standard on the server. There is no need to install SQL Server on the client computers as they will be linking to the server version of SQL Server.

If you are running GeoInfo Tools on a stand-alone computer, you will want to install SQL Server Express (follow the instructions below to install SQL Server Express on a client computer).

If you are running the GeoInfo Tools SQL Server backend as a replicated backend database, then you will need SQL Server Enterprise or Standard installed on the replication host server and SQL Server Express installed on each client computers.

GeoInfo Tools SQL version runs on SQL Server version 2012 and later. SQL Server Express is a free version of SQL Server that can run GeoInfo Tools for most databases except very large ones (greater than 10 gb).

If you are going to use database replication, then you have to install the same or up to one lower version of SQL Server locally as the version on the publisher server, so ask the publisher for the server version.

Example for Installing SQL Server Express on a client computer; Download and install the SQL Server Express.

- SQL Server Express 2016 can be downloaded here; <u>Download Microsoft®</u> <u>SQL Server® 2016 Service Pack 2 Express from Official Microsoft</u> <u>Download Center</u>. Download and Install Express (SQLEXP) as you do not need Express Advanced (SQLEXPADV).
- SQL Server Express 2014. Download and install the SQL Server Express and Tools version;
  - ExpressAndTools 64BIT\SQLEXPRWT\_x64\_ENU.exe for 64 bit Windows
  - ExpressAndTools 32BIT\SQLEXPRWT\_x86\_ENU.exe for 32 bit Windows.
  - SQL Server Express 2014 can be downloaded here; <u>https://www.microsoft.com/en-us/download/details.aspx?id=42299</u>.
- SQL Server Express 2012. Download and install the SQL Server Express and Tools version;
  - ENU\x64\SQLEXPRWT\_x64\_ENU.exe for 64 bit Windows
  - ENU\x86\SQLEXPRWT\_x86\_ENU.exe for 32 bit Windows.

 SQL Server Express 2012 can be downloaded here; https://www.microsoft.com/en-us/download/details.aspx?id=29062.

SQL Server 2016 Example;

- Start the SQL Server Express installer, SQLServer2016-SSEI-Expr.exe.
- Choose Custom installation type. Use default media location, click install, wait for download to complete



- Accept License terms, include updates, click Next after Install Rules.
- Feature Selection defaults as shown below are good;

Microsoft' SQL Server' 2016

SQL Server 2016 Setup Feature Selection Select the Express features to in	ıstall.		– – ×
Install Rules Feature Selection Feature Rules Instance Configuration Server Configuration Database Engine Configuration Reporting Services Configuration Consent to install Microsoft R Feature Configuration Rules Installation Progress Complete	Eeatures: Database Engine Services SQL Server Replicatio R Services (In-Databa Full-Text and Semant Reporting Services - Nati Shared Features Client Tools Connectivity Client Tools SDK Documentation Compor SQL Client Connectivity S LocalDB C	; n se) ic Extractions for Sea ve / Compatibility nents SDK	Feature description:         The configuration and operation of each instance feature of a SQL Server instance is isolated from other SQL Server instances. SQL Server instances can operate side-by-side on         Prerequisites for selected features:         Already installed: Windows PowerShell 3.0 or higher Microsoft Visual Studio 2010 Redistributable         Space Requirements         Drive C: 3923 MB required, 160350 MB available
	Instance <u>r</u> oot directory: Shared feature directory: Shared feature directory ( <u>x</u> 86):	C:\Program Files\Mic C:\Program Files\Mic C:\Program Files (x86	crosoft SQL Server\ crosoft SQL Server\ i)\Microsoft SQL Server\
			< <u>B</u> ack <u>N</u> ext > Cancel

 Instance Configuration – choose Named instance, use default name SQLExpress or any other you choose (maybe the same name as your computer).

SQL Server 2016 Setup					-		×
Instance Configuration	n						
Specify the name and instance	e ID for the instance of SC	QL Server. Instance ID	becomes part of the in	stallation path.			
Install Rules	O <u>D</u> efault instance						
Feature Selection	Named instance:	\$QLExpress					
Instance Configuration							
Server Configuration	Instance <u>I</u> D:	SQLEXPRESS					
Reporting Services Configuration							
Consent to install Microsoft R	SQL Server directory:	C:\Program F	iles\Microsoft SQL Sen	ver\MSSQL13.SQLE	XPRESS		
Feature Configuration Rules	Reporting Services dire	ectory: C:\Program F	iles\Microsoft SQL Sen	ver\MSRS13.SQLEX	PRESS		
Complete	Installed instances:						
	Instance Name	Instance ID	Features	Edition	Ver	sion	
	GEOINFOSB	MSSQL12.GEOINF	SQLEngine,SQLEn	Express	12.0	.2569.0	
	<shared compone<="" p=""></shared>		SSMS Adv SSMS		12.0	2550.0	

- Use defaults for Server Configuration, Database Engine Configuration, Reporting Services Configuration, Accept install Microsoft R Open and Feature Configuraton Rules. Click Next through these accepting the default settings. Wait for the install to complete.
- When the install is complete you may need to reboot your comuter to complete the install, but wait untill you after finishing installing SQL Server Management Tools. Close the install Complete window.

Compute	r restart required	×
0	One or more affected files have operations pending. You must restart your computer after the setup process is completed.	
E <u>a</u>	ОК	

 Back at the initial installation screen, select Install SQL Server Management Tools (some versions already have installed it for you). From the download page download the GA release for production use. When the download is complete, Run the setup file, SSMS-Setup-ENU.exe. After the install is complete, click Restart to complete the installation. This all that is required to install SQL Server for GeoInfo Tools.

10013.					
髋 SQL Server Installation Center			-		×
Planning	New SOL Server	stand-alone installation or add features to an evis	ting installat	tion	
Installation	Launch a wizard	to install SQL Server 2016 in a non-clustered envi	ronment or	to add	
	features to an ex	isting SQL Server 2016 instance.			
Maintenance	Install SQL Serv	er Management Tools			
Tools	Launch a downl	oad page that provides a link to install SQL Server	Manageme	nt Studi	io,
Resources	SQL Server com SQL Server Profi	mand-line utilities (SQLCMD and BCP), SQL Serve ler and Database Tuning Advisor, An internet con	r PowerShell	I provid	er,
Options	install these tool	5.		1	
<b>•</b>	Install SQL Serve	r Data Tools			
u u u u u u u u u u u u u u u u u u u	Launch a downl	oad page that provides a link to install SQL Server	Data Tools (	(SSDT).	SSDT
	provides Visual S Database, the SO Integration Servi	itudio integration including project system suppo L Server Database Engine, Reporting Services, An ces. An internet connection is required to install S	alysis Service	SQL es and	
_	Ungrade from a	previous version of SQL Server			
	Launch a wizard	to upgrade a previous version of SQL Server to SQ	OL Server 20	16.	
Microsoft" SQL Server" 2016					
	÷:			-	
Microsoft SOL Server Managemen	t Studio	RELEASE 16.5 Microsoft SOL Server Manag	ement Stu	idio	
	e bladio	····· ································	ement stu	uio	
Welcome. Click "Install" to begin.		Restart required in order to complete set	up.		
		All specified components have been installed successfully.			
		The computer needs to be restarted before setup can continu	ie.		
		•			
By clicking the "Install" button, I acknowledge that I accept the	Terms and				
SOI Server Management Studio transmits information about your installation experience	e. as well as other				
usage and performance data, to Microsoft to help improve the product. To learn more a Management Studio data processing and privacy controls, see the privacy statement lin	bout SQL Server k above.				
instan Close		Close			

\*If replicating your database. Once SQL Server is installed send your database administrator the name of your SQL Server instance so setup scripts can be created for your computer. The SQL Server instance follows this format \\YourComputerName\YourSQLServerInstanceName, like \\GEOINFOSB\SQLEXPRESS. To get the instance name open SQL Server Management Studio and in the Connect to Server dialog look for the server name. You may need to browse for your installed server name if it does not show initially.

🛃 Connect to Server		×
Microsoft S	QL Server 2014	
Server type:	Database Engine	~
Server name:	GEOINFOSB\GEOINFOSB	~
Authentication:	Windows Authentication	~
User name:	GEOINFOSB\mikes	~
Password:		
	Remember password	
Connec	t Cancel Help (	Options >>

### Non Replicated SQL Server Backend Database Setup

- Copy the provided GeoInfo Tools database files, GeoInfoTools\_XXXXXXXXX.mdf and GeoInfoTools\_ XXXXXXXXXX.Idf, to the C:\GeoInfoTools\\_Management\Backend folder.
- Open SQL Server Management Studio.
- When prompted to connect to a server, select your installed instance from the Server name list, and Windows Authentication. Click Connect.

🚽 Connect to Server	×
Microso	oft SQL Server 2014
Server type:	Database Engine ~
<u>S</u> erver name:	GEOINFOSB\GEOINFOSB ~
Authentication:	Windows Authentication ~
<u>U</u> ser name:	GEOINFOSB\mikes
<u>P</u> assword:	
	Remember password
<u>C</u> onnect	Cancel Help <u>Options &gt;&gt;</u>

• In the object browser of SQL Server Management Studio right click on Databases and select Attach.



• In the Attach Database form click Add.

间 Attach Da	tabases				-		$\times$
Select a page	.Script ▼ ©Help						
" General	Databases to attach MDF File Location	Database ! File Type	iame Attach As Current File Path	Owner	Status	Messag Add	e
Connection							
Server: Connection:							
Progress						Add B	temove
Ready							
						OK	Vairea

- In the Locate Database Files form enter the location
  - (*C:\GeoInfoTools\\_Management\Backend*) of the GeoInfo Tools database files and the File name, *GeoInfoTools\_XXXXXXXXXX.mdf.* Click OK. Sometimes the file picker does not work here so you might need to copy and paste from Windows File Explorer.



• Database and log files are listed for attaching, so click OK.

间 Attach Dat	tabases				-		×
Select a page	Script ▼ NHelp						
General	Databases to attach:						
	MDF File Location	Database Name	Attach As	Owner	Status	Messa	age
	C:\Data\GeoInfoTooIs\_SQL	GeoInfoTools	GeoInfoTools	GEOINFOS			
	"GeoInfoTools, GeoInformation Original File Name GeoInfoTools_GeoInformati	Sols "database detai File Type C Data C	e urrent File Path ∖Data∖GeoInfoTools∖	SQLServer	Message	Add	Remove
Connection	GeoInfoTools_GeoInformati	Log C	\Data\GeoInfoTools\	SQLServer			
Server: Connection: <sup>IJ</sup> <u>View</u> Progress						PP4	Remove
O Ready							
						OK	

Close SQL Server Management Studio

• Open GeoInfo Tools from the Windows Program Files list (Pin to Start Menu for easy access). If prompted to "Link to SQL Server" select **Yes**. If not prompted click the Re-link button in GeoInfo Tools.



• In the SQL Server Name field enter the SQL Server instance name that was just install on your local computer.

OK

Cancel

SQL Server Name Required	×
Enter the SQL Server name, generally like WINDOWSSERVERNAME\SQLSERVERINSTANCE	OK Cancel
GEOINFOSB\GEOINFOSB	
Enter the name of your GeoInfo Tools backe	nd database.
SQL Database Name Required	×

Enter the SQL Database name, generally like GeoInfoTools

GeoInfoTools GeoInformationSolutions

• The GeoInfo Tools Application will link to your SQL Server backend database and open the main application screen when it is complete. Select an Active Project, or edit the VT\_Project lookup tablet to all available projects.

👝 🗑 🕫 🖓 🕅 🕅 🖓 ( 🚍 ( ) ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )							
Home Create External Data Database Tools							
Geoinfo Tools v3.2b1							
GeoInfo Tools Database by Geo-Information	Solutions Company: Geo	Information Solutions	Active Project: SanJose	~			
Current Backend Database: SERVER=GEOINFOSB\GEOINFOSB DA	TABASE=GeoInfoTools_GeoIn	formationSolutions		Re-link			
Database Tools Reports Surface Dispatch Drill Dispatch Q	AQC Tools Drill Assay Se	ttings Best Analysis Co	mposites/Equivalents Import/Export Replication	Settings			
Lookup List Tools	GeoInfo Mobile Tools		View/Edit/DataEntry Tools - Select a Form				
Select Lookup Table to Edit - Validation Tables	Data Importers	Data Logger		~			
Set Lookup lists for current project equal to:		Data Luggei	Mobile View (small device)     Portrait V	view (Tablet)			
	Geochemistry	Observation	Analysis Tools				
Duran Tarla			Select an Assay Lab Importer				
Create Project Oueries *Evicting queries will be overwritten	Data Exporters	Data Logger		~			
All Project Queries Analysis Queries	Data Logger						
*Only needed one time *After new assay methods loaded	Geochemistry	Observation	Opuate Analysis Tables				
☑ Add Meter From and To fields, if DH logging is in feet.	detection values. Updates DH sample gaps. Creates Project Queries for Active						
□ Add 3D Coordinates to DH queries, queries open slower.	GeoInfo Mobile Lookup List Exports Project (to update any new analysis method columns).						
☑ Inlcude Best Analysis Method fields, no if > 255 columns.	v3.x Windows OS, Tablets General Database Tools						
Select Query To View - No Editing	Lookup Lists		Update Coordinates				
×	* export includes all project's	Active settings in the	* WGS84 datum only, converts Lat/Long to UTM or UTM to	Lat/Long.			
View ALL queries. Active project only if unchecked	database. Country/State list	included.					
View in Form. Highlights and formats, slower to open!	v2.x Windows Mobile C	S, Handhelds	Create DH 3D Coordinates				
View as Table. Fast filtering and sorting, slower to open	Lookup Lists	Country/State	* Active project only. Requires collar Easting and Northing	coordinates,			
Manage Custom Queries	* export includes Active setting	ngs for current project only	Levelon and at least one survey.				

#### **Replicated SQL Server Backend Database Setup**

#### Edit Hosts File

Add IP and server name of the publication server, like 192.168.177.102 GEOSERVER2, to your local *hosts* file, *C:\Windows\System32\drivers\etc.* Locate the *hosts* file, right click and click Open with, select Notepad. Add a host like 192.168.177.102 GEOSERVER2 to the bottom of the file.



When you Save the file, Windows will not let you for security reasons, so save it to the Documents folder instead as prompted. Save without the .txt extension, with no extension.

Save As	
	C:\Windows\System32\drivers\etc\hosts.txt You don't have permission to save in this location. Contact the administrator to obtain permission. Would you like to save in the Documents folder instead?
	Yes No

Then copy the new host file in the *C:\Windows\System32\drivers\etc* directory replacing the existing one.

\*if you are having problems replacing the hosts file it is likely being blocked by your anti-virus software, change its setting to allow it.

#### Subscribe to GeoInfo Tools Replicated Database

Copy the

1\_NewSubscription\_XXXXXXXXXXGeoInfoTools\_XXXXXXXXXX.sql setup file provided by the database administrator to the C:\GeoInfoTools\\_Management\Scripts directory.

A replicated database is not attached to SQL Server like a non-replicated database. Instead, a subscription is made to the SQL Server publication, hosted in a company office or by Geo-Information Solutions. A subscription will copy/pull the database to your computer and attach it to your instance of SQL Server.

The GeoInfo Tools database administrator should provide each user with a SQL script, like

1\_NewSubscription\_XXXXXXXXXX\_GeoInfoTools\_XXXXXXXXXX.sql, that can be run in SQL Server Management Studio. Running this script will create the GeoInfo Tools database and create a merge subscription to the GeoInfo Tools database publication.

Either double click

1\_NewSubscription\_XXXXXXXXXX\_GeoInfoTools\_XXXXXXXXX.sql from Windows File Explorer or Open SQL Server Management Studio on your local computer.

• Connect SQL Server Management Studio to your local SQL Server instance.

🚽 Connect to Se	rver	$\times$
	Microsoft SQL Server 2014	
Server type:	Database Engine	~
<u>S</u> erver name:	GEOINFOSB\GEOINFOSB	~
<u>A</u> uthentication:	Windows Authentication	$\sim$
<u>U</u> ser name:	GEOINFOSB\mikes	$\sim$
Password:		
	Remember password	
	Connect Cancel Help Options >>	

 If the sql script does not open automatically (double clicked from Windows File Explorer), in SQL server Management Studio click File – Open – File. Navigate the provided script file, like

1\_NewSubscription\_XXXXXXXXXX\_GeoInfoTools\_XXXXXXXX.sql. When the sql script is open click the Execute icon to create the GeoInfo Tools database and replication subscription. When complete the "Command(s) completed successfully" message appears, you can then close SQL Server Management Studio.





#### Initialize Subscription

Connect to your publication server VPN account (provided by your database administrator).

Open GeoInfo Tools from the Windows Program Files list. If prompted to "Link to SQL Server" select **Yes**. If not prompted click the Re-link button in GeoInfo Tools

Link to SQL Server?	$\times$
Do you want to link to an SQL Server backend? If No you will be linked to an Access (.mdb) backend.	
<u>Y</u> es <u>N</u> o	

In the SQL Server Name field enter the SQL Server instance name that was just installed in your local computer.

SQL Server Name Required	×
Enter the SQL Server name, generally like	ОК
	Cancel
GEOINFOSB\GEOINFOSB	
Enter the name of your Geolofo Tools backen	d database
Litter the name of your debinito roots backen	u ualabase.

SQL Database Name Required	×
Enter the SQL Database name, generally like GeoInfoTools	ОК
	Cancel
GeoInfoTools GeoInformationSolutions	

You may need to license GeoInfo Tools at this point if it has not already been licensed.

The GeoInfo Tools Application will link to your SQL Server backend database and open the main application screen when it is complete. Select an Active Project, then click on the Replication tab.

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Home Create External Data Database Tools					0
GeoInfo Tools v3.2b1					×
* GeoInfo Tools Database by Geo-Information Current Backend Database: SERVER=GEOINFOSB\GEOINFOSB D/	Solutions Company: Geo ATABASE=GeoInfoTools_GeoInfo	Information Solutions	Active Project: SanJose	Re-link	~
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Lookup List Tools	GeoInfo Mobile Tools		View/Edit/DataEntry Tools - Select a Form		
Select Lookup Table to Edit - Validation Tables	Data Importers	Data Logger	Mobile View (small device)	Portrait View (Tablet)	
Set Lookup lists for current project equal to;	Geochemistry	Observation	Analysis Tools		
Query Tools			Select an Assay Lab Importer		1
Create Project Queries *Existing queries will be overwritten	Data Exporters	Data Logger			
All Project Queries Analysis Queries	Geochemistry	Observation	Update Analysis Tables		
Add Meter From and To fields, if DH logging is in feet.	cecenenioury	observation	* Creates temporary local flat analysis tables with options to cut less than detection values. Updates DH sample gaps. Creates Project Queries for Active Project (to update any new analysis method columns). General Database Tools		
□ Add 3D Coordinates to DH queries, queries open slower.	GeoInfo Mobile Lookup	List Exports			
☑ Inlcude Best Analysis Method fields, no if > 255 columns.	v3.x Windows OS, Tablets Lookup Lists		Update Coordinates		
Select Query To View - No Editing					
View ALL queries. Active project only if unchecked	* export includes all project's Active settings in the database. Country/State list included.		UTMLLConverterInstaller.exe install required		
□ View in Form. Highlights and formats, slower to open!	v2.x Windows Mobile O	S, Handhelds	Create DH 3D Coordinates		
View as Table. Fast filtering and sorting, slower to open	Lookup Lists	Country/State	* Active project only. Requires collar Easting Elevation and at least one survey.	and Northing coordinates,	
Manage Custom Queries	* export includes Active setting	gs for current project only			
Form Viaur				19	

You can check the Auto Connect/Disconnect VPN option and enter the VPN Connection Name (exact Windows name), Username and Password. The VPN connection needs to be setup in Windows before using this option. GeoInfo Tools sends email notifications upon completing synchronization. It is a good idea to include all users of the database in the Email Notification List so that all users know when new or modified data is available. Edit the lookup table VT\_RPL\_EmailList to add email addresses. Click the Select a Database pick list and select the publishers SQL Server from the list.

Home         Create         External Data         Database Tools         GeoInfo Tools Database, Geo-Information Solutions, www.GeoInfoSol.com         -         O				٥	×			
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Database Tools Reports Surface Dispatch Drill Dispatch Q	AQC Tools Drill Assay Settir	ngs Best Analysis Compos	ites/Equivalents	Import/Export	Replication	Settings		
Database Replication Please read notes below before	ore completing	Replicación de base	de datos Por	favor lea not	as abajo			
By selecting a replication database (Access backend) or server below you will start replication with your current backend and A VPN connection is required before starting the replication of VPN to Auto Connect/Disconnect below. Replication can take a significant amount of time to complete but up to 1-2 hours with some connections and data changes process it is best if you do not use the database or computer Select a Database (Access backend, like \\192.168.177.10 Server backend, like GEOSERVER\GEOSERVER2014) for Systems	rr (SQL Server backend) I the selected database. r it will fail. You can set the (normally 1 to 20 minutes, ), and while replication is in until it is finished. )0(GIS_GeoInfoToolsDatab nchronization	Seleccionando una repl Server backend) abajo seleccionada. Es necesaria una conex configurar la VPN para La replicación puede to (normalmente 1 a 20 m 1-2 horas), y mientras o el ordenador hasta qu ase\Replica_GeoInfoTools	licación de base d comenzará replic dión VPN antes de conexión/descon- mar una cantidad ninutos, pero con en proceso de rej ue termine. _Backend_GeoIr	le datos (acceso ación con su bar iniciar la replica exión automátic i significativa de algunos cambio plicación es mej iformationSolut	backend) o ck-end actua a ción o fallará a a continuac tiempo para s de conexio or si no utiliza <b>ions.mdb) o</b>	servidor ( I y la base á. Puede ción. completa nes y date a la base r a Serve	SQL e de dat r os hasta de dato r (SQL	OS 3 S
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Mike.Schaefer@GeoInfoSol.com	VPN Connection Name	Geo-Information Solutions	s Geoserver	vindows nisc)				
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Form View							1	

After selecting from the Select a Database pick list, synchronization starts. Wait until it completes. The first time you sync is called an initialization and can take 30-60 minutes depending on your internet speed (if it only runs for a few minutes there is a problem), after initialization sync's that are done frequently should only take 2-5 minutes. It is best to not interfere too much with your internet connection so the synchronization can complete without interruption.



When synchronization is complete a message is presented and emails are sent out.

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#### Windows 10 Spring Creators Update Bug (winver 1703)

A bug appeared in Windows 10 Creators update that most users received in summer of 2017 (type winver in the Windows search, open the app and look for version 1703). This bug was fixed in the Fall Windows 10 Creators update that most users received in early 2018 (winver version 1709).

The problem is that the very last script to run in the initialization is running into a timing or usage issue and is failing the first time. To solve this problem, run the sync a second time (likely faster this time) and it will complete without problems and your database should be ready.

Contact your database administrator if you are unsure of the initialization completion as the progress is logged on the server, however synchronizing 2 times the first time works with all computers.

All future synchronizations will be much faster (2-5 minutes) and are completed within GeoInfo Tools – Replication tab.

\* if you are not using Automatic Connect/Disconnect option, make sure to close your VPN connection.

# **Opening – Initializing**

GeoInfo Tools is opened by opening the front-end application, *GeoInfoTools\_Application.accdb*.

Initialization of GeoInfo Tools establishes a link from the front-end application to the backend database and will occur if and when;

- You are opening the database for the first time
- After receiving an application update from Geo-Information Solutions
- After moving the backend database (which is not recommended, especially for replicated databases)

Initialization will prompt the user as to whether the backend is in SQL Server or Access format.

Link to SQL Server?	X
Do you want to link to an SQL Server backend an Access (.mdb) backend.	? If No you will be linked to
	Yes <u>N</u> o

If the backend is SQL Server two input boxes will appear where the user inputs the SQL Server name and then the database name.

SQL Server Name Required	X
Enter the SQL Server name, generally like WINDOWSSERVERNAME\SQLSERVERINSTANCE	OK Cancel
GEOINFOW510A\GEOINFOW510A2012	
SQL Database Name Required	X
SQL Database Name Required Enter the SQL Database name, generally like GeoInfoTools	OK Cancel

If the backend database is Access a file browser window will prompt the user to locate the backend database. Navigate to the location of your backend, select it and click **Open**.

Link to Master Backend. Find the Database		
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File <u>n</u> ame:	T	<ul> <li>Access Files (*.mdb, *.mde)</li> <li>Open</li> <li>Cancel</li> </ul>

An initialization splash screen will inform the user the initialization is in progress, this generally takes just a few seconds.



Once a link to the backend database is established the main GeoInfo Tools application opens. The location of the backend database is displayed at the top. It is possible to **Re-link** to a different backend data base if needed. All the database tools are accessed from this main form.

Home Create External Data Database Tools	GeoInfo Tools Database, Geo-Information Solutions, www.Geo	hfosorcom
GeoInfo Tools Database by Geo-Information Current Backend Database: C:\Data\GeoInfoDatabase\Testing_Geo	Solutions Company: Geo-Information Solutions	s Active Project: SanJose
Database Tools Reports Surface Dispatch Drill Dispatch QA	AQC Tools Drill Assay Settings Best Analysis Comp	osites/Equivalents Import/Export Replication Settings
Lookup List Tools Select Lookup Table to Edit - Validation Tables	GeoInfo Mobile Tools GeoInfo Mobile Data Importers	View/Edit/DataEntry Tools - Select a Form
Set Lookup lists for current project equal to;	Geochemistry Observation	Mobile View (small device)     Portrait View (Tablet)
Ouery Tools	Data Logger	Analysis Tools Select an Assay Lab Importer
Create Project Queries		Update Analysis Tables
Add Meter From and To fields, if DH logging is in feet.     Add 3D Coordinates to DH queries, queries open slower.	GeoInfo Mobile Lookup List Exports v3.x Windows OS, Tablets	<sup>*</sup> Creates temporary local flat analysis tables with options to cut less than detection values. Updates DH sample gaps. Creates Project Queries for Active Project (to update any new element columns).
Inlcude Best Analysis Method fields, uncheck if queries are > 255 columns.	Lookup Lists	General Database Tools
Select Query To View	* export includes all project's Active settings in the	Update Coordinates
View ALL queries checked: active project only if unchecked	version.	* WGS84 datum only, converts Lat/Long to UTM or UTM to Lat/Long. UTMLLConverterInstaller.exe install required
<ul> <li>View queries in Form. Highlights Drill Assays per Settings and</li> </ul>	v2.x Windows Mobile OS, Handhelds	Create DH 3D Coordinates
formats columns a little slower to open. Manage Custom Queries	* export includes Active settings for current project only	* Active project only. Slow to process! Requires collar Easting and Northing coordinates, Elevation and at least one survey.
		Nation (201

If this is the first time you have added data to your backend database, then you should type a **Company Name** in the box provided at the top. Company name is used in report titles.

You should also select an **Active Project** from the list. If you have not set up the project lookup list for your projects, you will need to set that up as described in the <u>Lookup List Tools</u> section.

You need to run the Create Project Queries tool;

- If this is the first time you have opened the database
- After receiving an application update from Geo-Information Solutions
- After creating a new project

This creates all the queries needed by the user and the database for your specific project.

You will have to run the Update Analysis Tables tool;

- If this is the first time you have opened the database, if you have assay data in the database for your project
- After receiving an application update from Geo-Information Solutions
- If you have added new assay data to the database.
- If you have modified Composite or Best Analysis settings

This tool can be slow to run (2 to 10 minutes) when you have significant amounts of assays data so it is best run when you have time.

## **Database Tools**

Tools are grouped by tabs just below the company and active project fields;

- Database Tools
- Reports
- Surface Dispatch
- Drill Dispatch
- QAQC Tools
- Drill Assay Settings
- Best Analysis
- Composites / Equivalents
- Import / Export
- Replication
- Settings

Several commonly used tools are provided from the Database Tools tab.

## Lookup List Tools

Select a lookup table to edit or view. Lookup tables provide pick list values for data entry fields on the Geochem Sample Card, Log and Observation forms and are exported for import into GeoInfo Mobile for field data collection pick lists.

Lookup tables are validation tables with referential integrity in the database model which means they not only provide pick lists for easy data entry but they also restrict the data that can be entered into the database fields. A value is required in a lookup table before data values for that field can be entered into the database. The database model provides integrity such that if a data field value needs to be changed, a typo or value change, the user can change the value in the lookup list and it will automatically change all values in the database tables that are the same. A lookup list value can only be deleted if no data in the database uses that value. If the user tries to delete a lookup value that is in use in a database table the database will not allow it and a warning message will be generated.

Lookup lists are a very important setup and maintenance task for building a good database. Do not put the same characteristic in a list spelled two different ways, and keep your lists appropriate for that lists data type. Limit your lists to select well thought out values as your database is only as good as your lookup lists.

Lookup lists in GeoInfo Tools database forms and GeoInfo Mobile are presented to the user alphabetically so some lists are worth special naming so they order or group properly; for example alteration intensity, 1\_Weak, 2\_Moderate, 3\_Strong, and lithology modifier, GrainedFine, GrainedMedium, GrainedCoarse. Use words without spaces (some software struggles with spaces or special characters) and in title case (proper case) for ease of reading. All capital words take too much space on small mobile device screens and are difficult to read.

The Active checkbox limits the items that are displayed in GeoInfo Tools and GeoInfo Mobile pick lists. The active setting in lookup lists are managed by project in the database. The idea is that the complete master database lookup lists do not need to be visible for all projects in the database, so users can edit the active setting to show only the appropriate values for their project. Why would Kimberlite be a lithology for a Porphyry project?

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## **Create Project Queries**

This tool creates a base set of queries for the active project. Run this tool after;

- A new project is added to the database.
- New analysis method/digestion results (not just new results) have been loaded into the database.
- Edits are made to the Best Analysis for the active project.
- Edits are made to the Drill Hole Composites settings for the active project.
- An update of GeoInfo Tools Database is being used for the first time.
- New data types are added to the database. Only queries with data are created so as new data is added to your database you will see new queries created to present that data.

GeoInfo Tools by default contains a set of queries that present views of all the data in the database. These queries are labeled *qryALL\**. Project queries created by users are labeled *qryXXX\** where XXX is the 2-3 letter project code assigned in the *VT\_Project* lookup table for your project. Queries are further classified by information category; surface geochemistry sample data query names are *qryXXXCHEM\**, drill hole/trench/blast hole/underground working log data query names are *qryXXXDH\**, and field observation data query names are *qryXXXOBSV\**.



Three Create Project Queries checkbox options exist for drill/trench data;

- 1. Add Meter From and To Fields should be checked if logging is in feet and you want meter Depth, From and To fields included in your queries.
- Add 3D Coordinates to DH Queries should be checked if you want to include 3D coordinates to your drill data queries. The Create DH 3D Coordinates tool must be run before 3D coordinate data will be available in your queries. \* Note; adding 3D Coordinates to your queries can make opening large project queries much slower to open so only include 3D Coordinates if you need them.
- Include Best Analysis Method Fields should be checked if you want a column for each Best Analysis indicating the method of each result.
   \* Note; adding Best Analysis Method Fields can add many extra columns to your drill analysis queries sometimes creating more than 256 columns to your data query (a software limit) making it unreadable. Also these extra columns make opening the queries slower, so only include Best Analysis Methods if you need them.

Only queries with data are created so as new data is added to your database you will see new queries created to present that data.

The list of base project queries is always changing as client requests are being added. Please review this list frequently for new query views of your data. Contact Geo-Information Solutions with new query requests; they can be added permanently for all projects.

## Select Query to View

This tool opens queries that have been created for a project. Queries are used to view the data in the database. Queries are exported to use in other programs or linked to via ODBC directly to other software.

Two Select Query to View checkbox options exist;

- 1. **View all Queries** shows the ALL queries as well as the active project queries. ALL queries, *qryALL*\*, present data for the complete database; all projects. Un-checking this box will list only the active project queries.
- View Queries in Form. Query data is presented in a form allowing better control on formatting. Column widths are set to the data width so data is better visible, and drill data highlight and decimal setting are shown.
   \* Note; queries are a bit slower to open in a form.

Users generally do not work with raw table data (*tbl\**) as the database tables are normalized and not really that useful except for data storage.

### Manage Custom Queries

Custom queries can be created to present specific data in the database; a little knowledge of Access is all that is needed to create custom queries. Generally, it is best to start with one of the base GeoInfo Tools created queries and modify it to further meet your criteria.

For example, let's say you want to show all rock samples collected by MSchaefer. Opening the query qryXXXCHEMRock shows all rock samples for your project. Right clicking on the tab header and selecting Design View allows editing of this query.

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■ Field:	SampleDate	R_LithM	SampleType	SampleDate	Sampler	Country	StateProvince	Company	Project	Prospect
Table:	wqrytblCHEMSam	wqrytblCHEMSam	wqrytblCHEMSam	wqrytblCHEMSam	wqrytblCHEMSam	wqrytblCHEMSam	wqrytblCHEMSam	wqrytblCHEMSam	wqrytblCHEMSam	wqrytblCHEMSar
Sort: Show: Criteria:	<b>V</b>	V	▼ 'Rock'	✓	<b>V</b>	V	✓	✓	'SanJose'	<b>V</b>
or:	4									

Adding "MSchaefer" to the Criteria under Sampler changes this query to only present rock samples for your project collected by MSchaefer.

Home	e Create Externa	I Data Database Too	Query Tools     Design	_	GeoInfo Tools I	Database, Geo-Informa	ation Solutions, www.G	GeoInfoSol.com	_	×
wqry	tblCHEMSamples SampleNo SampleNo DataType ID SampleType SampleDate	tblCHEMRc Sample R.Sample R.Sample R.Sample R.Litho R.Litho R.Litho	No pleType pleWidth logy todffier todffier2	tblqryRockAnalysis * SampleNo Fraction Batch Lab	Cut	ryRockAnalysisCut * SampleNo Fraction Batch Lab				
4										•
Field: Table:	SampleNum: Samı wqrytblCHEMSamı	SampleNoOld wqrytblCHEMSam	SampleType wqrytblCHEMSamj	SampleDate wqrytblCHEMSam	Sampler wqrytblCHEMSam	Country wqrytblCHEMSam	StateProvince wqrytblCHEMSam	Company wqrytblCHEMSamı	Project wqrytblCHEMSam	Prospect wqrytblCHEMSar
Show: Criteria:	V	<b>V</b>	'Rock'		MSchaefer"	<b>V</b>	<b>V</b>	✓	SanJose'	✓
or:										
	4 📖			n	л		1		л	•

Once a base project query is edited it should be saved with a different name or the next time you run the Create Project Queries tool this custom query will be overwritten by the standard version. Click the *Office* button in the upper left Access window, then *Save As*, then *Save Object As*. Save all custom queries in the same format as the base project queries, qryXXX\* (so they will appear in the Query to View pick list and can later be saved permanently), so for our example a good name would be *qrySJCHEMRock\_MSchaefer*;

Save As	_	? ×
Save 'qrySJCHEMRock' to:		
qrySJCHEMRock_MSchaefer		
As		
Query		-
	ОК	Cancel

Once saved this custom query can be opened or link to as needed. However if you receive an update of the GeoInfo Tools Application and have not saved custom queries using the Manage Custom Queries tool you will lose your custom queries as they are not initially saved in the backend database or your local setting database.



The Custom Query Management tool allows you to save custom queries either locally to your setting database or to the backend database where all users will have access to the query.


Once saved custom queries will show in the Manage Custom Queries tool list. The next time you run the Create Project Queries tool saved custom queries will be created in addition to the base project queries provided by GeoInfo Tools for all projects.



# **GeoInfo Mobile Tools**

GeoInfo Mobile Importers import field data collected using GeoInfo Mobile software (<u>www.GeoInfoMobile.com</u>) on rugged handheld computers or tablets into the database.

Validation table lookup lists managed in the GeoInfo Tools database can be exported to a text file that is then imported into GeoInfo Mobile on a mobile data collector to facilitate field data collation using pick lists and rules of the GeoInfo Tools database.

#### **Geochemistry Importer**

The Geochemistry Importer imports data collected and exported from the GeoInfo Mobile Geochemical Sample Card.

**1. Get GIM Data**. Use the file browser to locate the GeoInfo Mobile export text file you want to import into the database. The file format is *GeochemSC\_DeviceID\_YYYMMDD.txt*. The GeoInfo Mobile data is loaded into the importer data window, this data is a temporary copy of the export file data and any edits made here will not change the original export file. The data in the importer window should be reviewed and can be edited if needed.

1. Get G	IM Data 2. Upl	oad To Database Delete	Pending Data	Tables Sampl	er		
SampleNo	ID SampleType	SampleDate Sam	pler Country	StateProvinc	Project	Prospect	Are
400	118 StreamSediment	9/6/2012 11:43:06 AM D_Ro	yle Australia	Queensland	Koonenberry	EL6479	Bunke
500	113 Rock	9/6/2012 10:32:28 AM A_Wh	ite United Stat	tes Arizona	SanJose		
501	117 Soil	9/6/2012 11:22:16 AM D_Ro	yle Australia	Queensland	Koonenberry	EL6479	Bunker
600	119 Lag	9/6/2012 1:22:26 PM D_Ro	yle Australia	Queensland	Koonenberry	EL6479	Bunker
700	114 Rock	9/6/2012 10:34:29 AM A_Wh	ite United Stat	tes Arizona	SanJose		
701	115 Rock	9/6/2012 10:34:55 AM D_Ro	yle Australia	Queensland	Koonenberry	EL6479	Bunke
702	116 Rock	9/6/2012 10:43:15 AM D_Ro	yle Australia	Queensland	Koonenberry	EL6479	Bunke
703	121 Rock	1/11/2013 9:39:26 AM C_Sp	urway Australia	Queensland	Koonenberry	EL6803	Bunker
704	122 Rock	3/14/2013 9:17:14 PM C_Sp	urway Australia	Queensland	Koonenberry	EL6803	Bunke
800	120 QAQC	9/6/2012 2:30:34 PM D_Ro	yle Australia	Queensland	Koonenberry	EL6803	Bunke
852	126 Rock	10/2/2013 4:56:45 PM EPare	des Mexico	Queretaro	San Martin	Area 29	Nivel 2
853	127 Rock	10/2/2013 4:57:37 PM EPare	des Mexico	Queretaro	San Martin	Area 29	Nivel 2
960	128 Rock	10/2/2013 4:58:00 PM EPare	des Mexico	Queretaro	San Martin	Area 29	Nivel 2
961	129 Soil	10/2/2013 5:02:21 PM EPare	des Mexico	Queretaro	San Martin	Area 29	Nivel 2
962	130 Rock	10/3/2013 7:32:27 PM EPare	des Mexico	Queretaro	San Martin	Area 29	Nivel 2
963	131 Rock	10/3/2013 7:34:30 PM EPare	des Mexico	Queretaro	San Martin	Area 29	Nivel 2
064	132 DanCon	3/13/2014 2.04.02 DM Eftara	dach& Mavina	Quarataro	San Marty	Aroa 2011	Nivoln

**2. Upload to Database**. This uploads the data to the database. If an error is returned it will describe the problem, usually missing values in a lookup table or

duplicate sample numbers. Data will not load until it is error free. Fix errors in the importer data window and try again.

Errors are generally not present if users are using updated lookup lists exported from the database and imported into GeoInfo Mobile. In general users cannot type new values in GeoInfo Mobile, except in a few fields like Project and Sampler, so any new typed values will need to be either added to the database validation lookup tables ( $VT_*$  tables) or edited in the importer data window to match a value already in the database validation table lookup list.

An error occurs if a sample already exists in the database. This occurs when GeoInfo Mobile data is loaded to the database and the data is not cleared out of the GeoInfo Mobile database, and then the user collects more data. The next time data is imported a duplicate error is generated. The duplicate samples are listed and will need to be deleted in the importer data window (highlight the grey box left of the data, you can select multiple records at one time, and press the delete key on your keyboard or click the Access toolbar delete icon). Sorting by sample number or date (right click on the field name and sort A..Z) can sometimes group all duplicates and make them easy to find and delete.

Duplicates Found	X
Your data was not imported. Your PPC sample data contains 8 already in the Master Database. Samples: 830510, 830511, 830 830513, 830514, 830515, 830516, 830517, Please fix and try ag	8 sample(s) )512, gian.
	ОК

After data is loaded successfully a message appears and the temporary data in the importer data window is deleted. If the importer is closed without completing the upload to the database the temporary data is deleted.

#### **Observation Importer**

The Observation Importer imports data collected and exported from the GeoInfo Mobile Observation Database. The importer functions like the <u>Geochemistry</u> <u>Importer</u> so review that section for details. The file format is *Observations\_DeviceID\_YYYYMMDD.txt.* 

#### Data Logger Importer

The Data Logger Importer imports data collected and exported from the GeoInfo Mobile Data Logger. The importer functions like the <u>Geochemistry Importer</u> so review that section for details; however, this importer has some important differences worth noting.

	♀ ♀   Q   omo Creato I	ol (i A) ( Z )		GeoInfo Tools Da	atabase, Geo-Information	Solutions, www.GeoInt	foSol.com			— 0 <mark>— X</mark>
Geoinfo	Tools v3.0b32	Log Importer								×
Geo	Info M	lobile Dat	a Logger I	mporter v2	.x, v3.x	Du	plicate Finder Queries			
	1. Get 6	GIM Data	2. Upload	To Database	Delete Pend	ing Data	•			
Collar H	HoleType Surv	vey Lithology Alterat	ion Mineralization Min	erals Structure Samples	Photos Geotech	Density MagSus	GammaRad Parameters	*IntervalSummary		
	ID	HoleID	HoleType	Project	t I	Prospect	Area	Company	Country	StateProvince
	2	5 J-1004	Drillhole	SanJose					United States	
	2	6 J-1007	Drillhole	SanJose					United States	Arizona
*	(New	()								
Record: H	1072 • 8	w No Hiter Search	•							•
Form View										Num Lock

Log data from GeoInfo Mobile is not exported to a single file, but one file for each log type that contains data. The file format is

*Log\_DeviceID\_YYYYMMDD\_LogType.txt*. The importer has a data tab for each log type.

When running the **Get GIM Data** tool the user only need locate the collar file and all the other associated files will be recognized and loaded into the appropriate data tab.

The **Upload To Database** tool has a bit more functionality than the Geochemistry and Observation importers, mainly in that is not only appends data but it will also allow users to update existing data. Data that already exists in the database in the Geochemistry and Observation importers has to be removed before uploading; in the Data Logger Importer existing data can be updated or ignored. This is required as logging can occur over long periods of time where some of the data might be needed in the database before the hole is complete. Also it is common to have more than one GeoInfo Mobile data collector logging a hole, maybe a geologist logging lithology, alteration, mineralization, minerals, and structure, and a technician logging samples, photos, magnetic susceptibility, density and geotech.

The importer looks for duplicates in the file to be uploaded and will report errors if found; these duplicates need to be removed before the data can be loaded. The duplicate finder queries in the pick list in the upper right corner of the importer help find the intervals that are duplicated if you get this error message.

The **Upload To Database** tool provides several messages as data is loaded, more messages if a hole has been previously loaded into the database.

The first message will always appear, it states how many holes are being appended (new holes) and how many are being updated. This message is designed to give the user a chance to catch a Hole ID error when more than one GeoInfo Mobile data collector is being used to log the same hole. If a geologist logs hole J-1004 and loads the data in the database this message should state *"You are about to append one new hole to the database"*, if the geologist then starts to load a technicians log data for the same hole and the message states the same *"You are about to append one new hole to the database"* the import should be canceled because the hole names might not match as this hole should be being updated. If loaded with a different name, even J1004 versus J-1004, the database will treat the data as two different holes. Common Hole ID mistakes involve using spaces and special characters in names, like J 1004, J-1004, and J1004. If you do catch an error in a Hole ID and need to change it, you need only change it in the collar tab and all the descriptive data Hole ID values will be changes as well.



The second message will appear only when data is being updated. It discusses possible issues with updating primary key values. Read this message and understand it, it is important.



An example: If you load a lithology interval for hole J-1004 at 23.5 to 45.9 as Andesite and then later change Andesite to BasalticAndesite in GeoInfo Mobile and then load the log data again the update will be fine, Andesite for this interval will be replaced by BasalticAndesite. However, if you change the interval to 23.5 to 62.5 and load this data into the database, since From and To values are part of the primary key (the tables unique record identifier), this new record will not be treated as a duplicate for updating, but rather a new record that is appended to the database. This creates an overlap for lithology in the database!

A query in the database has been designed to find these problems, in this case an overlap (*qryXXXDH\_LogOverlapCheck*), and can be used to locate problems that can be fixed, but it is always best to catch problems before loading data. A few operating procedures can alleviate this issue

- Only load your log data into the database once when it is complete.
- Log without editing From, To, Depth, Sample Numbers, Log Type, Mineral Type, or Structure Type if you plan to load the log data multiple times.
- After loading a log into the database multiple times as the hole is being logged, when the hole is complete you can deleted the hole from the database and then load it one last time complete without gaps or overlaps. The idea being that the GeoInfo Mobile data collector contains the master log while logging a hole and then once the hole is complete and a final clean upload is completed to the database, the database is now the master. The GeoInfo Mobile log data should then be deleted.

The next message, a series of similar messages one for each data type that might need updating, asks the user what to do with intervals that already exist. New data will always be appended but the user has the option to update or ignore existing data. Generally a user would say Yes and update existing data if the protocol is the master log is in the field until the log is complete.

Collar Data Already Exists
Collar data already exists for 3 hole(s) of 4 total holes in this import file. Do you want to replace the collar data for these holes? If No only new hole collar data will be imported! Cancel to quit and fix/change this data first. Hole(s): J-1004, J-1005, J-1006,
Yes <u>N</u> o Cancel
Lithology Data Already Exists
Lithology data already exists for 104 records(s) of 258 total records in this import file. Do you want to replace the Lithology data (other than the primary key fields listed here) for these intervals? If No only new intervals will be imported! Cancel to quit and fix/change this data first. Hole, From, To, LogType:
J-1004, 0, 60, Detailed2nd; J-1004, 60, 400, Detailed2nd; J-1004, 470, 490, Detailed2nd; J-1004, 490, 530, Detailed2nd; J-1004, 530, 580, Detailed2nd; J-1004, 580, 690, Detailed2nd; J-1004, 690, 704, Detailed2nd; J-1004, 704, 706, Detailed2nd; J-1004, 706, 722, Detailed2nd; J-1004, 722, 729, A, Detailed2nd; J-1004, 729,4, 732, Detailed2nd; J-1004, 732, 765, Detailed2nd; J-1004, 765, 767, Detailed2nd; J-1004, 767, 775, Detailed2nd; J-1004, 775, 783.3, Detailed2nd; J-1004, 783.3, 786, Detailed2nd; J-1004, 786, 840, Detailed2nd; J-1004, 840, 874, Detailed2nd; J-1004, 874, 887, Detailed2nd; J-1004, 887, 933.5, Detailed2
<u>Y</u> es <u>N</u> o Cancel

#### Lookup List Exports

The Lookup List Export tool creates a .txt file of all the validation table lookup lists and settings from your GeoInfo Tools database. This file is then imported into GeoInfo Mobile so its pick / validation lists match the database.

Export text files are saved to the *ExportsGIMLookupLists*\directory under the location of the GeoInfo Tools application.

Two versions of GeoInfo Mobile are supported. **Version 3.x**, the newest version of GeoInfo Mobile, runs on Windows 8.1 tablets and the exported lookup lists included Active settings for all project in your GeoInfo Tools database. **Version 2.x** runs on rugged handheld Windows Mobile OS devices and each lookup list export includes settings for the active project only, multiple exports will be needed if more than one projects lookup lists are required in GeoInfo Mobile v2.x.

It is important to keep your GeoInfo Mobile pick lists in sync with your GeoInfo Tools database lists as this eliminates almost all errors when loading data into the database.

Export Con	nplete 📃 🚬
1	GeoInfo Mobile for Windows Lookup List Export Complete. File S:\GeoInfo Tools\Build\ExportsGIMLookupLists\VTGIMWin_201407181444_A II_GEOINFOW510A.txt created.
	ОК

#### Country/State/Prov Export

Version 2.x has a separate export for the large Country State Province lookup list. Similar to the Lookup List Export tool, the Country/State/Prov export tools creates a validation table lookup list export for GeoInfo Mobile v2.x. In this case only the Country/Stat/Prov lookup list is included and since the whole world is already in the database this update is rarely needed.

# View/Edit/Data Entry Tools

The **Geochem Sample Card** forms (yellow), **Observation** forms (cyan) and **Log** form (green) are opened from the View/Edit/DataEntry Tools pick list. All edits, additions and deletions to data should be completed using these forms as they automatically handle database primary key requirements. A form exists for each surface sample type, observation type and log and more than one form can be open at one time. The following forms are provided;

atabase Tools Reports Surface Dispatch Drill Dispatch QAQ	C Tools Drill Assay Settin	ngs Best Analysis Compo	sites/Equivalents Import/Export Replication Settings	
ookup List Tools Select Lookup Table to Edit - Validation Tables	GeoInfo Mobile Tools GeoInfo Mobile Data	Importers	View/Edit/DataEntry Tools - Select a Form	•
Set Lookup lists for current project equal to;	Geochemistry	Observation	Geochem Sample Card Lag Geochem Sample Card Pap Con	
Ouery Tools	Data Logger		Geochem Sample Card QAQC Geochem Sample Card Rock	
Create Project Oueries			Geochem Sample Card Soil Geochem Sample Card Stream Sediment	
*Existing queries will be overwritten			Geochem Sample Card Vegetation	
Add Meter From and To fields, if DH logging is in feet.	GeoInfo Mobile Looku	p List Exports	Geochem Sample Card Water	
Add 3D Coordinates to DH queries, queries open slower.	v3.x Windows OS, Tal	blets	Log Detailed	
Inlcude Best Analysis Method fields, uncheck if queries are > 255 columns.	Lookup Lists		Observations Claim Post	
elect Query To View	* export includes all project's	Active settings in the	Observations Drill Hole	
rySJCHEMRock ·	version.	ncluded with Windows OS	Observations Geology	
View ALL queries checked; active project only if unchecked	v2.x Windows Mobile	OS, Handhelds	Observations Radiometric	
View queries in Form. Highlights Drill Assays per Settings and formats columns a little slower to open.	Lookup Lists	Country/State	Observations Vegetation	
Manage Custom Queries	* export Includes Active settin	gs for current project only	Observations Wildlife	

Forms like queries can be used to review data in the database, but have the added functionality to create new data and edit existing data. Replicated backend databases are particularly susceptible to corruption if primary key edits, like sample numbers, are not completed properly (both SampleNo and ID have to be edited independently to match or problems can occur). Similarly improper edits to primary keys could cause some tools like the assay importers to report problems. Using the database forms to edit data alleviates corruption problems and simplifies data entry, edits and deletions.

#### **Geochem Sample Card Forms**

All sample types share some basic common information (left half of form) and each sample type has specific unique description fields based on the sample type (right half of form).

1	-								Y
				GeoInfo Mobile, Geo Information So	olutions, www.GeoInfoSol.com				~
	»	Geoinfo Mobile v3.068							×
		W Rock Samples	Project: Genex	*Required	H H	1 + +	of 4		×
	l		Troject. Genex	*Default		• <u> </u>			
		ID Location	SampleNo:	7	Description				_lā
		Project: Genex	SampleType:	Rock ·	SubType:	<ul> <li>Colour:</li> </ul>			-
		Prospect:	• Date: 4/3/20	)14 2:03:56 PM	Width:	ColorDetai	:		
		Area:	Sampler:	MSchaefer ·	Lithology:	<ul> <li>Formation:</li> </ul>		-	-
		Country: United States	Company:	•	LithMod1:	<ul> <li>Member:</li> </ul>		-	-
		StateProv: Colorado	SampleNoOld	ŀ	LithMod2	Oxidation		-	-
		Coordinates			AltT	MinTrund		_	-
		Coordinates Elevatio	n:	Read GPS	AltType1:	• MinType1:			
		Long: Lat:	Datum:	-	Alt1Style:	• Min1Styl	81		-
	ane	East: North:	Datum:	•	Alt1Int:	<ul> <li>Min1Int:</li> </ul>			-
	E I	SurveyType:	<ul> <li>GPS Sate</li> </ul>	GPS HDOP:	AltType2:	MinType2:		1	1
	Jatio	Site Properties Unit:	Device:	Device ID:	Alt2Style:	Min2Style	e		-
	avig	MagSus:	•	• •	Alt2Int:	<ul> <li>Min2Int:</li> </ul>			-
	z	Conductivity:	•	• •	AltMin1:	MinMin1:		-	%
		GammaRad:	•	• •	AltMin2:	<ul> <li>MinMin2:</li> </ul>		•	%
		Contamination:			AltMin3:	MinMin3:		•	%
		PhotoID:			Struct1:	<ul> <li>Azm Dir</li> </ul>	DipDir	Decl	
		7 Rock Genex ing	c picture box to add photo	:: 0 / 6 0	Ctruct2:	- Arm Din	DipDir	Deel	
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		anarch H / 1 al 4 h H h M M M Ala Citer Carr	0		Comments:				-
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I		🖬 · · · · · · · · · · · · · · · · · · ·	_	GeoInfo Mobile, Geo Information So	olutions, www.GeoInfoSol.com			_ 0 _	X
ļ	0	Home Create External Data Database Tools							۲
	»	Geolnfo Mobile v3.0b8     GSC Rock     GSC Sol							×
		Soil Samples	Project: Genex	*Required *Default	н	1 >	of 1	*	×
	1	ID Location	SampleNo:	8	Description				Î
		Project: Genex	SampleType	Soil	SubType:	<ul> <li>Terrain:</li> </ul>		1	•
		Prospect:	<ul> <li>Date: 4/3/20</li> </ul>	14 2·26·55 PM	Depth:	Texture:			-
		Area:	Sampler	MSchaefer	Colour:	<ul> <li>Moisture:</li> </ul>		-	-
		Country: United States	Company:	inschaeren .	Horizon:	<ul> <li>Vegetation</li> </ul>			-
		i contractor a la l				· og otter of f			

SieveSize:

Geology

LithFloat:

LithOutcrop:

Comments:

LoadDate:

ModifiedDate

LoadFile: GeoInfo Tools Geochem Sample Card

Quality:

AltType:Mineralized:

SampleNoOld:

Datum:

Datum:

GPS Sats:

Device.

•

•

click picture box to add photo

Read GPS

GPS HDOP:

:: • / • B

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Device ID:

•

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StateProv: Colorado

Elevation:

Lat:

North:

Unit.

Coordinates

SurveyType: Site Properties

Conductivity: GammaRad:

Contamination:

PhotoID:

MagSus:

Long:

East:

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Num Lock 🔟 🖬 🚳 🕊

Constructionation in Section intervent       Image: I	am Sedir							
Uncertain     Project:     Genex     SampleNo:       ID     Location     SampleNo:     SampleNo:       Area:     SampleNo:     SampleNo:       County:     United States     Company:       StateProv:     Colorado     SampleNoOld:       Coordinates     Elevation:     Read GPS       Long:     Lat:     Data:       East:     North:     Data:       StateProv:     Colorado     SampleNoOld:       Coordinates     Elevation:     Read GPS       Long:     Lat:     Data:       StateProv:     Color SampleNoOld:     Colory:       Conductivity:     GPS Sats:     GPS HDOP:       MagSus:     Contamination:     Contamination:       PhotoID:     * click picture box to add ontoo:     * 0 • 0 • 0       Contamination:     *     *     1 • 0 f 1       PhotoID:     * click picture box to add ontoo:     * 0 • 0 • 0       Contamination:     *     *     1 • 1 • of 1       Contamination:     *     *     *     1 • of 1	am Sedu	GSC Rock GSC Soil	GSC SSed		*Dequin			
D Location Sample/10:   Project: Genex   SampleType: SampleType:   County: United States   County: Contraintes   Elevation: Read GPS   Long: Lat:   Datum: UthFloat:   Conductivity: GPS Sate:   TagSus: GPS Sate:   Contamination: GPS Sate:   PhotoDI: elick picture box to ad photo   * dick picture box to ad photo 22 0 0 0 1   MagSus: Geology   Contamination: *   PhotoDI: * dick picture box to ad photo   * dick picture box to ad photo 22 0 0 0 1   MagSus: *   Contamination: *   PhotoDI: * dick picture box to ad photo   * dick picture box to ad photo *   MagSus: SampleType:   Contamination: *   PhotoDI: * dick picture box to ad photo   * dick picture box to ad photo *   MagSus: SampleType:   Contamination: *   PhotoDI: * dick picture box to ad photo   * dick picture box to ad photo *   PhotoDI: * dick picture box to ad photo   * dick picture box to ad photo *   PhotoDI: * dick picture box to ad photo   * dick picture box to ad photo *   * dick picture box to ad photo *   MagSus: * 1   * dick picture box to ad photo   * dick picture box to ad photo	ann ocan	nents	Projec	t: Genex	*Defaul		1 → of 1	**
Project: Genex SampleType: Terrain:   Prospect: Date: J2014 2:27:09 PM   Viidt: Texture: Colour: Moisture:   Country: United States Company: SeeSize: TapType:   SateProv: Colorado SampleNoOld: Geology   Coordinates Elevation: Read GPS   East: North: Datum: Geology   Surve/Type: GrS Sats: GPS HDOP:   Site Properties Unit: Device:   PhotoID: Containation:   PhotoID: Cott alcone box to add cholo   Containation: Conduct end store   Containation: Conduct end store   PhotoID: Cott alcone box to add cholo   Containation: Conduct end store   Containation: Conduct end store   Containation: Conduct end store   Containation: Conde for store   Containation: Conduct end store   Containation: Conde for store   Condition: SampleNo:   Containation: Conde for store   Condinates <td>Location</td> <td></td> <td></td> <td>SampleNo:</td> <td>8</td> <td>Description</td> <td></td> <td></td>	Location			SampleNo:	8	Description		
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## **Observation Database Forms**

All observation types share some basic information and each observation type has specific unique description fields. Geology observation fields are the same as a rock geochemistry sample.

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General Observations are for collecting any observation type that does not have a specific data entry form. Any observation can be collected here! Type is the field name and the Parameter and Comment fields are the data.

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## Log Forms

Log forms are for logging Drill Holes, Blast Holes, Trenches or Underground Workings. A tab exists on the log for each type of data;

**Collar – Survey** – Collar and survey information. Collar surveys (drill rig set up) should be entered as well as down hole surveys. Down drill holes should have negative dips, horizontal holes have a 0 dip and up holes (possible underground) positive dips.

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*Lithology* – Lithology, modifiers, color and texture.

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*Lithology Minerals* – Lithology minerals, percentage estimates, and style.

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*Formation* – Formation, Member and Submember. Also used as lithology unit.

*Alteration* – General alteration types or suites including primary and secondary. Individual mineral alterations like chloritization can be entered in the Alteration Minerals section.

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1310	1321	Detailed				IronStained	Strong	Patchy	
1321	1381	Detailed	Carbonate	Weak	Vuggy	IronStained	Moderate	Pervasive	
1377	1383	Detailed				IronStained	Weak	Veinlet<1cm	
1392	1505	Detailed	Silicification	Moderate	Pervasive	Chlorite	Strong	Pervasive	
1412	1439	Detailed				IronStained	Weak	Veinlet<1cm	
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*Alteration Minerals* – Alteration minerals, percentage estimates, and style.

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*Mineralization* – General mineralization types or suites including primary and secondary. Individual mineralization minerals like chalcopyrite can be entered in the Mineralization Minerals section.

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*Mineralization Minerals* – Mineralization related minerals like chalcopyrite, galena etc...percentage estimates, and style.

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Structure – Structure type, rank (for paragenetic sequence), modifiers, strike and dip. Depth is the center of the structure and the width provides interval information for larger structures if needed.

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*Physical Properties* – Magnetic susceptibility, density, and scintillometer. Magnetic susceptibility data can be imported from a MPPEM25 instrument export.

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# **Density Formulas**

Density requires 2 to 3 fields be collected for a density calculation. The four methods in the database are as follows.

Method	Calculation
DryWet	WeightDry / (WeightDry - WeightWet)
WetVolume	Volume / (WeightWet – Volume)
DryVolume	Volume / (WeightDry – Volume)
Wax	Measured Fields
	<ul> <li>WeightDry (D)</li> </ul>
	<ul> <li>WeightWaxAir (A) (Core and Wax)</li> </ul>
	<ul> <li>WeightWaxWater (W) (Core and Wax in water)</li> </ul>
	Calculation: <i>D / (A-W((A-D)/0.93))</i>

# Magnetic Susceptibility

Type All Filter	og: 69 Logs for Project SanJose								
Filter		Log 1-100	17		1		of 824		
nllarSuny Tyne II	Filter	Log J-100	,,, 		1		01 024		
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*Geotech* – Recovery length and RQD lengths are used to automatically calculate recovery and RQD. Fracture frequency, relative rocks strength, weathered state and discontinuity condition can be collected.

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*Samples* – Analysis sample intervals are assigned sample numbers. QAQC samples can be logged.

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*Photos* – Photos are linked to the database for hyper linking.

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**Parameters** – the parameter log is used to log information that does not have an appropriate location in any of the other logs. The parameter field should be the name of field that will be used to store the information and the Value field is the value for this column/parameter. For example; since protolith does not exist in the lithology log, "Protolith" (the text) can be typed in parameter field and the name of the Protolith like Limestone should be typed into the Value field.

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**Composites** – after <u>composite settings</u> are complete and assay results are received from the lab, composite intervals can be logged.

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Assay – Assay results for the sample intervals.

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#### Standard, Mobile and Portrait Views

Three form formats are provided; Standard Landscape (both view option boxes unchecked), Mobile (small device landscape), and Portrait. Depending on the computer/tablet screen orientation and size users can find the format that works best . All formats have the same data fields, they are just arranged differently. In general the following is suggested;

- Standard Landscape: computer or tablet displays greater than 11 inches
- **Mobile**: 8-11 inch tablets where field size needs to be bigger to operate by touch.
- **Portrait**: 8-11 tablets. Field size is smaller than Mobile View and larger than Standard Landscape view. This format also optimizes data content, minimizes Windows and Access software elements, and works well with the Windows 8.1 onscreen keyboard on tablets.

Standard Landscape format has all data fields on one page. The page needs to be scrolled down to see the complete photo and comment fields.

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Mobile Landscape format has several tabs for different types of data and the fields are larger and thus more visible and touch friendly on small devices.

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Portrait Format has two tabs and the fields are sized between Standard and Mobile landscape formats. The field size is good for touch screen operation and Windows and Access elements are minimal.

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#### Form and Datasheet Views

The default view is form view. Form view allows the user to see more data for a sample on one screen without scrolling. By double clicking on the grey record selector on the left of the form you can switch to datasheet view (list, log or spreadsheet view); very useful for logging!

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Datasheet view shows all the samples in the database for the active project. Double clicking on the grey record selector to the left of a sample row activates Form view at that sample.

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#### Photos

The Photo field shows associated photos and if one does not exist allows you to capture one from your computer tablet camera. Photos are linked to the records in the database by the Photo ID field. The file location of photos is determined by the settings on the GeoInfo Tools Settings tab. If the user does not set a photo location path for the current project in the Settings tab then default directories are created in the location of the GeoInfo Tools application named PhotosGeochemistry, PhotosObservatons, and PhotosLog.

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Click on the photo control (grey imago box) and the camera icon will fly in from the left. The first time you use your computer or tablet Right Click on the camera icon to set the camera device to use. Once your device is defined then Click on the camera icon to take a photo. (Warning: some camera settings are not functioning properly and resolution settings are not working so some cameras are only capturing low resolution images right now.)

Alternately you can select the Folder icon and select a photo to link to this record. This works if you copy your photos to your computer from a camera.

Once you have a linked photo to a record you have the following photo tools;



### Read GPS

The Read GPS button will connect to the tablet GPS or a Bluetooth GPS based on the COM port settings in the GeoInfo Tools Settings tab. If a GPS is found the native GPS Latitude/Longitude coordinates will be saved and the UTM coordinates will be calculated and saved. Survey Type will be set as either GPS or GPSDifferential based on the reading type and the HDOP and number of satellites will be saved.

HDOP (Horizontal Dilution Of Potion) is a measure of GPS accuracy; 0-1 is excellent, 1-2 is good, 2-5 is poor and 5+ is unacceptable.

### **Navigation Bar**

Access provides a navigation bar on the bottom left of each form, however, for smaller touch screen tablets the navigation bar is too small to use by touch. GeoInfo TooIs has a larger navigation bar on all the forms that is touch friendly. The GeoInfo TooIs navigation bar has added functionality for creating new records and deleting records.

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### **Double Click / Touch Optimization**

Double clicking in any numeric field brings up a calculator based numeric keypad for easy data entry. This is particularly useful when values need to be calculated or you are doing data entry on touch screen tablets.

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Double clicking in a pick list field expands the pick list. This is particularly useful on touch screen tablets as you do not need to click the small down arrow.

Double clicking on a pick list field label will open the Lookup List Viewer/Editor for the list that is validating that field. This is quick way to get to the proper lookup list that controls a field on a form.

Scrolling with touch is single finger vertically and two fingers horizontally.

#### **Auto Incrementing/Created Values**

In the Log forms interval From values are defaulted to the previously typed To value to save typing. Sample numbers are auto-incremented.

In the Geochem Sample Card forms Sample Number is incremented to the next number. The GeoInfo Tools Settings tab has an option to auto increment sample numbers by sample type rather than the default by all sample types combined (one number series for all sample types).

Observation IDs, which have to be unique in the database, are auto-created based on the date and time.

#### **Required Fields**

Required fields are labeled in Red in Form view. Required fields in the forms need to be entered before moving on, if the user starts to enter data in a record and wants to leave that table to enter other data an error will be presented if a required field is missing for that record, (see below). The user will have to enter the required field data or type the **ESC** key to delete the record. Closing the form exits without saving the incomplete record.

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# **Defaulted Fields**

Default values for some consistent fields like Sampler/Person, Country, State/Prov, Project, Prospect, Area, Structure Measurement Instrument Declination, and MagSus, Conductivity and Gamma Radiation Device ID's, Unit and Device Type are automatically defaulted to the last entered value when new records are created. The defaulted fields are shown with italic labels in Form View.

### **Saving Data**

Data is saved as soon as it is entered in a field so there is no need to save your data.

### **Deleting Records**

Records can be deleted in the forms by clicking the grey box to the left of the row then pressing the delete key on the keyboard, going to the Quick Access Toolbar at the top and selecting the Delete icon (black X), or by clicking the Delete Record Icon on the navigation bar (only one record at a time with this tool). Multiple records can be selected at one time by click and dragging along the grey/blue bar on the left side of the datasheet or all records can be selected by clicking on the grey box where the column and row selectors meet in the upper left corner of a datasheet/log view form.

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# Sorting Records

Sorting a form is set by highlighting the column that you want to sort on, click on the grey/blue column label box, and then clicking the A...Z or Z...A icon, from the quick access toolbar at the top of the Access window. Alternately you can click the down arrow by the column header and select A...Z or Z...A sort.

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### **Filtering Records**

Filtering a form can be completed by highlighting the value in a record that you want to filter on and clicking the Filter Lightning bolt icon, , from the quick access toolbar at the top of the Access window.

Part of a field value can be selected and filtered based on just that part of the word existing in the field, for example highlighting just the *stone* part of the value *Sandstone* and filtering will filter all records containing *stone*, so *Sandstone* and *Mudstone* will be part of the filtered set.

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When a table is filtered the Filter icon, is highlighted yellow, and the Record counter on the bottom of the table (see figure below) shows the record count with the text (Filtered) next to it. To remove a filter, click the highlighted yellow Filter icon.



### **Freezing Columns**

Columns can be frozen in a table if the user wants to scroll horizontally and still see certain columns. This might be useful, for example, for Alteration Primary in a table like Alteration which has many columns.

Select the columns that you want to freeze (using the grey column title bar), then select **Freeze Columns** from the More menu in the quick access toolbar at the top of the Access window.

**B** Filter All LogType All
 Filter • • of 1 • Log GX001 1 н к •• × -CollarSurv Type Lith LithMin Formation Alt AltMin Mztn MztnMin Structure PhyProp Geotech Sample Photo Parameter Composite Assay From To LogType Lithology LithMod1 LithMod2 LithMod3 LithColor LithTexture LithCon 15.6 46.4 Detailed Dacite 456.6 Detailed Num Lock Filtered 🔟 🖬 🚳 🕊

Log forms have From, To and Depth fields frozen by default.

### Assay Lab Data Importers

Lab importers exist for many assay labs and XRF devices, and new ones can be added upon request. The **Generic Excel** importer can be used to import assay data that is not in a lab specific format; open the importer to see the required format.

Select an importer from the list.

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Lookup List Tools Select Lookup Table to Edit - Validation 1	GeoInfo Mobile Tools GeoInfo Mobile Data I	mporters	View/Edit/DataEntry Tools - Select a Form	
Set Lookup lists for current project equal	to; Geochemistry	Observation	Mobile View (small device) Portrait View (Tablet)	
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Add Meter From and To fields, if DH logging i Add 3D Coordinates to DH queries, queries op	ALSChemexCSV_3RowDescNoLabC	hecks oChecks backs	* Creates temporary local flat analysis tables with options to cut less than detrivalues. Updates DH sample gaps. Creates Project Queries for Active Project (update any new element columns).	to
<ul> <li>Inlcude Best Analysis Method fields, uncheck 255 columns.</li> <li>Select Ouery To View</li> </ul>	AmericanAssayCSV_1RowDesc_Ele Custom_ElAguila_XLS	ment_Unit_Preperati	io General Database Tools Update Coordinates	
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View queries in Form. Highlights Drill Assays p formats columns a little slower to open.	Innov-X_CSV_All Formats Innov-XDelta_TabDelimetedCSV_M	linaurum	Create DH 3D Coordinates * Active project only. Slow to process! Requires collar Easting and Northing	
Manage Custom Queries	InspectorateCSV_3RowDesc Niton_Excel SGM_XLS		coordinates, Elevation and at least one survey.	
	SGS_CSV_4or5RowDescWithLabDu SGSPeru_XLS	ips		
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1. Select these fields	Element, Uni	t. CSV format.		DATE RECEIVE	D:2011-1	1-08 DATE	FINALIZED	2011-11-1	.5	
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Defaults are usually	ridedon	//i_//y		PO NUMBER :	"ABC-21 "					
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				DESCRIPTION	ppm	ppm	%	ppm	ppm	
2 Select Import				33456	< 0.005	<0.2	1.56	30	10	
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**Fraction** is generally set to the default of *All\_Avg* and is only changed in special situations where you analyze different fractions using the same sample number. **Lab** is defaulted in the importer and need not be changed.

Clicking the **Select Import File** button brings up a file browser so you can locate the file you want to import. It is important to not rename lab assay files before loading them into the database as the file name is the database batch ID.



After browsing and selecting the file to import the importer will review the data and perform several validation checks;

- Check completeness of import form, generally not an issue.
- Check if samples exist in the database. Samples have to exist in the database before assay results can be loaded; this is an important data quality issue.
- Check if this batch has already been loaded. A batch can only be loaded once. If you have loaded a preliminary batch, you must delete it before reloading it.
- A warning message will be presented if assay results for the same sample number already exist from a different batch. This is not common as duplicates and reanalyses should be given different sample numbers.
- Check for duplicate sample numbers in the lab result sheet. Generally, a lab error.

 Check that preparation codes, analysis methods and digestion values exist in the database validation tables, VT\_AN\_Preparation, VT\_AN\_AnalysisMethod and VT\_AN\_Digestion. If these do not exist a message is displayed and the VT\_AN\_Preparation table is opened for editing so the new values can be added to the database.

Each individual assay result is stored with sample number, element, unit, preparation, digestion, analysis method, fraction, batch, lab, load date and load file name. Preparation, digestion and analysis method fields are validated by the *VT\_AN\_Preparation*, *VT\_AN\_AnalysisMethod* and *VT\_AN\_Digestion* validation tables respectively, thus these tables need to contain values for each analysis loaded into the database. GeoInfo TooIs has *VT\_AN\_Preparation*, *VT\_AN\_AnalysisMethod* and *VT\_AN\_Digestion* values for many methods but on occasion new ones need to be added to the database.

Labs generally report data with preparation codes and not analysis method or digestion. Users must read the labs scheduled of serves to determine the analysis method and digestion for each preparation method used. Once you know the analysis method and digestion used for your preparation code make sure they exist in the *VT\_AN\_AnalysisMethod* and *VT\_AN\_Digestion* tables. Then open the *VT\_AN\_Preparation* table and add the new preparation code at the bottom, selecting the proper analysis method, digestion and lab from the pick lists. Once a record is added to the *VT\_AN\_Preparation* table, assay results for this preparation code can be loaded into the database.

	VT	AN_Preparation : Tab	le				×
		Lookup	Digestion	AnalysisMetho	Lab	Description	
	+	G9	Citric	AAS	Acme	Cu by Leach in Acid Citric 1 g - 100 mL. Finished by AA	
	+	G9 BRT Pulp	CyanideSodium	AAS	Acme	Cu by Leach in Cyanide Sodium 1 g - 100 mL. Finished I	
	+	G9 BRT Reject	CyanideSodium	AAS	Acme	Cu by Leach in Cyanide Sodium 1 g - 100 mL. Finished I	
	+	ICP-2A	GEOAR01	ICPES	Alaska Assay		
	+	ICP-3A	GE03ACID	ICPES	Alaska Assay		
	+	ICP-4A	GE04ACID	ICPES	Alaska Assay		
	+	ICP70	UNK	ICPUNK	SGS	SGS ICP	
	+	ICP-MS-2A	GEOAR01	ICPMS	Alaska Assay		
	+	ICP-MS-3A	GE03ACID	ICPMS	Alaska Assay		
	+	ICP-MS-4A	GE04ACID	ICPMS	Alaska Assay		
	+	INAA	NA	INAA	Acme	INAA analysis	_
	+	M150	M150	WT	Acme	Metallic Pulverize & Sieve 500g to 150 mesh - save + and	
	+	M150 1kg	M1501kg	WT	Acme	Metallic Pulverize & Sieve 1 kg to 150 mesh - save + and	
	+	M150 2kg	M1502kg	WT	Acme	Metallic Pulverize & Sieve 2 kg to 150 mesh - save + and	
	+	M150 3kg	M1503kg	WT	Acme	Metallic Pulverize & Sieve 3 kg to 150 mesh - save + and	<b>~</b>
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If the lab importer error checking is successful a temporary normalized table (each analysis as a different row in the table) of your assay data will be presented for review. This is a view of your data as it will be loaded into the database. Generally, the only fields worth review are the Preparation, Digestion and Analysis Method fields. After reviewing this table, it can be closed by clicking the **X** in the upper right corner of the table tab. Clicking the **Upload Assays to Master DB** will load your results.

# **Delete Batch Tool**

Each lab importer has a **Delete a Batch Tool** button. Clicking this brings up a simple tool to select and delete a lab batch of results from the database. Generally, this is used when an error has been found in a loaded batch or the first load was a preliminary report.

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Home Create External Data Database Tools	elete Assay Batch			v ×
Delete Assay Batch	Tool			
Select A Batch To Delete	Delete Batch			
Form View				Num Lock Scroll Lock 🔽 🖬 🗃 🥵 🐇

**\*note**; different file names are treated as different batches so if a batch is labeled preliminary the database will not recognize the final result sheet without the word preliminary in the name as the same batch and it is up to the user to manually remove the preliminary batch. The lab importers will warn users that the same samples from a different batch name have already been loaded.

### **Update Analysis Tables**

Assay results are stored in a normalized table in the database (each analysis as a different row in the table) which is useful for data storage but not for analysis and presentation.

The **Update Analysis Tables** tool creates flat tables for the analyses where each sample is one row of data, and each analysis result is in a new column in that row; this is the format we work with assay data. The tool also offers the option to cut less than detection values to half the detection level, which is an industry standard for analysis. The creation of these temporary flat tables improves performance when using/analyzing assay data. It needs to be run after new analyses are added to the database (after multiple batches are loaded is fine) or you will not see newly loaded results in the analysis queries. This tool can be slow to run (2 to 10 minutes) when you have significant amounts of assays data, so it is best run when you have time.

If you have loaded assay results with new analysis or digestion methods and have updated the analysis flat tables, new assay fields with this data will not show up in the project queries until you run the <u>Create Project Queries</u> tool. This tool is automatically run after an Analysis Update, however only for the Active Project, so if you need to update other projects you will have to manually run the Create Project Quires tool. This only needs to be run when new methods have been loaded into the database not just new assay result.

Clicking the Update Analysis Tables button prompts the user with 3 options;

 The first option is to process all the projects in the database or only the active project. It is easiest to process all the projects in the database (Yes) however if you are in a hurry you may want to process only the active project (all projects might take 10 min, whereas just the active project may only take 1-6 minutes).

Update All Projects			X
Do you want to process al active project will be proc	II the projects in the cessed?	e database, if N	o only the
	Yes	<u>N</u> o	Cancel

2. The second option asks if you want to cut less than detection values to half the detection level. This is the industry standard so generally its best to click **Yes**.



3. The third option asks if you want to cut less than detection values to half the LOWEST detection value. Generally this is not an issue but in cases where you have the same element, analysis method and digestion, and different detection levels you can cut the values to half the lowest value.



A query, *qryALL\_AnalysisLessThanDetections\_MultipleValues*, will show any multiple detection analysis methods you might have in your database, if your database has none or the differences are not significant then you do not need to process with this option.

\*Note: this option increases the Update Analysis Tables tool processing time (up to 25%) so only run this option if it is important or the processing time is acceptable.

# **Update Coordinates**

Converts Latitude / Longitude coordinates to UTM coordinates and UTM coordinates to Lat/Long coordinates. It only converts and writes coordinates if either the Easting/Northing or Lat\_Dec/Long\_Dec fields in the database are blank (null). This coordinate conversion only works for WGS84 datum coordinates in the database. The database knows the coordinates are in WGS84 datum if the datum fields, LatLongDatum and/or EastNorthDatum, use the following format; LL\_WGS84 and UTMZ12N\_WGS84 (any UTM zone in this format).

Run this tool after new geochemical samples, observations or drill holes are added to the database or coordinates are entered or edited.

This tool requires installation of the *UTMLLConverterInstaller.exe* software. See the <u>UTM Latitude Longitude Converter Software</u> section for instructions.

\*Note; if you edit one coordinate pair in the database, either Easting/Northing or Latitude/Longitude and want the other pair calculated by the database you will have to delete those values from the database so they are blank (null). The tool only converts records with empty fields in the second coordinate pair.

# Create DH 3D Coordinates

The **Create Hole / Trench 3D Coordinates** tool creates coordinate pairs (X and Y) and an elevation (Z) for the start, end and center point of each logged data interval in the database. Drill holes need the Easting, Northing and Elevation fields completed for the collar, and at least one survey at 0 depth for the 3D coordinate calculations. Additional down hole surveys will be used if available. Users will be prompted with questions concerning the units the project is based on; coordinates, elevation, and From,To, and Depth values (units can be mixed like UTM coordinates with logging in feet).

A few issues might come to light using this tool, which might force you to clean your data;

- If elevation is not entered for a hole no 3D coordinates will be created.
- A survey dip of 90 degrees is up not down, so the 3D coordinates of a 90 degree dip hole shows the hole being drilled up! Survey dip is based on 0 being horizontal, down being negative and up being positive, so a vertical down hole has to be -90.

Holes/trenches not having the required fields for calculating 3D coordinates will be reported after this tool completes processing.

3D Coordi	nates Tool.
i	Drill hole and trench 3D coordinates updated/created, except for the following holes which are missing easting, northing, elevation, azimuth, and/or dip. Holes 221, 222, 223, EX-1?MS, EX-2?MS, J-1001, J-1002, J-1003, J-1004, J-1006, J-1007, Johnny1, Johnny2, SJ95-3R, SJ98-01, SJ98-02, SJ98-03, SOL-17?, Sol-19, Sol-pp2, Sol-pp3, Sol-pp-5, .
	ОК

Creating 3D coordinates is processed for the Active Project. The first time this tool is run it can take a very long time for a large project with a lot of logging (2-3 hours for a very large project), however subsequent running of this tool will only process new and changed data so it will update much faster.

A companion tool for plotting 3D data in ArcGIS has been programmed to allow creating attributed line segment intervals on maps using these 3D coordinates. See <u>Appendix D - Plotting Log Intervals in ArcGIS</u> for details on using this tool.

# Reports

Reports are available for drill hole/trench reporting. A series of standard reports by data type can be created by project.

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Database Tools Reports	Surface	Dispatch Dri	ill Dispatch	QAQC Tools	Drill Assay S	Settings	Best Aı	nalysis Co	mposites/Eq	uivalents I	mport/	Export Replication	n Settings		
Project Reports			Drill H	ole Reports											
Drill Hole Data (all holes	for pro	ject)	Select	a Hole:					• *Required						
Collar		Survey	-Custo Repo	m Reports ort Type:				•	Create/Dele	ete		Sample Control/S	Shipment		
Lithology		Alteration	1 2			•	11 12			•					
Minerals		Structure	3 4			•	13 14			•					
Geotech		Analyses	5			•	15 16			•					
			7			•	17			•					
			8			•	18								
			10			•	20			•					
							* select	data fields in	order 1 - 20						
				Open Rep	port			Export F	Report to PD	F					
Form View														Num Lock S	icroll Lock 🔟 🖥

Custom drill hole/trench reports are created using the **Custom Report Tool**. First create a report by clicking the **Create/Delete** button and then assign a name to the report type. The user then selects the types of information they wish to include in the report by selecting data types from the 1 - 20 pick lists. Once the report is designed you can select a hole to report and click the **Open Custom Report** button.

Reports always have collar information and then as many pages as needed for each type of information included in the report.

Once a report is defined it can then be used for as many drill holes/trenches as needed by selecting the report type from the **Report** pick list and a hole from the **Hole** list. Create several report formats and then create reports for holes as needed.

Reports can be opened in Access using the **Open Report** button (and then saved or printed), or exported to a PDF file using the **Export Report to PDF** button. Exported reports are saved in the *Reports* directory in the GeoInfo Tools application location.

# Geo-Information Solution Detail Drill Hole Report

SanJose P	roject		Hole:	J-1004	
Hole ID:	J-1004	C ountry:	United States	Latitude:	32.848277
Hole Type:	Drillhole	State/Prov:	Arizona	Lon gitude:	-109.51222
Hole Depth:	4747	Project:	SanJose	LatLong Datum	LL WG \$84
Logged By:	DLippoth	Prospect	San Jose	Easting:	639226.09
		Area:	West San Jose	Northing:	3635447.74
				Projection	UTMZ12N WGS84
				Elevation:	982.3

#### Report Contents:

Lithology Alteration Mineralization Minerals Structure MagSus GeoTech Samples MagSus Analyses\_01-05

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J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004	From:         To:           0.00         6           60.00         40           400.00         47           470.00         49           490.00         53           530.00         58           690.00         70           704.00         70           722.00         72           729.40         73           732.00         76           767.00         77           775.00         78           792.30         78	Lithology:           0.00         Alluvium           0.00         Andesite           0.00         Conglomerate           0.00         Andesite           0.00         Conglomerate           0.00         Andesite           0.00         Conglomerate           0.00         Conglomerate           0.00         Conglomerate           4.00         Homfels           6.00         Sandstone           2.00         Mudstone           5.00         Sandstone           7.00         Mudstone           5.00         Sandstone		Mod1: Vuggy	Mod2:	Mod3:	Color:
J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004	0.00         6           60.00         40           400.00         47           470.00         49           490.00         53           530.00         58           690.00         70           704.00         70           722.00         72           729.40         73           732.00         76           765.00         78           767.00         78           792.30         72	0.00     Alluvium       0.00     Andesite       0.00     Conglomerate       0.00     Conglomerate       0.00     Andesite       0.00     Conglomerate       0.00     Conglomerate       0.00     Conglomerate       0.00     Sandstone       2.00     Mudstone       2.00     Conglomerate       5.00     Sandstone       7.00     Mudstone       5.00     Sandstone		Vuggy			
J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004	60.00         40           400.00         47           470.00         49           490.00         53           530.00         58           580.00         69           690.00         70           704.00         70           722.00         72           729.40         73           732.00         76           765.00         78           707.00         78           709.30         78	0.00 Andesite 0.00 Conglomerate 0.00 Andesite 0.00 Conglomerate 0.00 Andesite 0.00 Conglomerate 4.00 Hornfels 6.00 Sandstone 2.00 Mudstone 9.40 Sandstone 2.00 Conglomerate 5.00 Sandstone 7.00 Mudstone 5.00 Sandstone		Vuggy			
J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004	400.00         47           470.00         49           490.00         53           530.00         58           690.00         70           704.00         70           702.00         72           729.40         73           732.00         76           765.00         76           767.00         78           792.30         72	0.00     Conglomerate       0.00     Andesite       0.00     Conglomerate       0.00     Andesite       0.00     Conglomerate       4.00     Homfels       6.00     Sandstone       2.00     Mudstone       9.40     Sandstone       2.00     Conglomerate       5.00     Sandstone       7.00     Mudstone       5.00     Sandstone					
J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004	470.00 49 490.00 53 530.00 58 580.00 69 690.00 70 704.00 70 708.00 72 722.00 72 729.40 73 732.00 76 765.00 78 765.00 77 775.00 78	0.00 Andesite 0.00 Conglomerate 0.00 Andesite 0.00 Conglomerate 0.00 Sandstone 2.00 Mudstone 3.40 Sandstone 2.00 Conglomerate 5.00 Sandstone 7.00 Mudstone 5.00 Sandstone					
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J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004	530.00         58           580.00         69           690.00         70           704.00         70           706.00         72           722.00         72           732.00         78           785.00         76           767.00         78           792.20         72	0.00 Andesite 0.00 Conglomerate 4.00 Hornfels 6.00 Sandstone 2.00 Mudstone 9.40 Sandstone 2.00 Conglomerate 5.00 Sandstone 7.00 Mudstone 5.00 Sandstone					
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J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004	690.00 70 704.00 70 706.00 72 722.00 72 729.40 73 732.00 76 765.00 76 767.00 77 775.00 78 792.30 78	4.00 Hornfels 6.00 Sandstone 2.00 Mudstone 9.40 Sandstone 2.00 Conglomerate 5.00 Sandstone 7.00 Mudstone 5.00 Sandstone					
J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004	704.00 70 706.00 72 722.00 72 729.40 73 732.00 78 785.00 78 785.00 77 775.00 78 792.20 78	6.00 Sandstone 2.00 Mudstone 9.40 Sandstone 2.00 Conglomerate 5.00 Sandstone 7.00 Mudstone 5.00 Sandstone					
J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004	708.00 72 722.00 72 729.40 73 732.00 78 785.00 78 787.00 77 775.00 78 782.20 78	2.00 Mudstone 9.40 Sandstone 2.00 Conglomerate 5.00 Sandstone 7.00 Mudstone 5.00 Sandstone					
J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004	722.00 72 729.40 73 732.00 76 765.00 76 767.00 77 775.00 78 782.20 78	9.40 Sandstone 2.00 Conglomerate 5.00 Sandstone 7.00 Mudstone 5.00 Sandstone					
J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004 J-1004	729.40 73 732.00 76 765.00 76 767.00 77 775.00 78 782.20 78	2.00 Conglomerate 5.00 Sandstone 7.00 Mudstone 5.00 Sandstone					
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J-1004 J-1004 J-1004 J-1004 J-1004 J-1004	765.00 76 767.00 77 775.00 78 782.20 78	7.00 Mudstone 5.00 Sandstone					
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J-1004 J-1004 J-1004 J-1004	775.00 78						
J-1004 J-1004 J-1004	702 20 70	3.30 Hornfels					
J-1004 J-1004	103.30 10	8.00 Dacite		Dike			White
J-1004	786.00 84	0.00 Hornfels					
	840.00 87	4.00 Sandstone					
J-1004	874.00 88	7.00 Hornfels					
J-1004	887.00 93	3.50 Sandstone					
J-1004	933.50 95	1.00 Hornfels					
J-1004	951.00 97	0.60 Sandstone					
J-1004	970.60 98	3.20 Mudstone					
J-1004	983.20 98	4.80 Tonalite		Dike			
J-1004	984.80 99	5.10 Mudstone					
J-1004	995.10 102	2.00 Sandstone					
J-1004	1022.00 102	4.00 Hornfels					
J-1004	1024.00 108	1.60 Dacite		Dike	Flow		
J-1004	1061.60 106	3.00 Hornfels					
J-1004	1063.00 108	9.50 Sandstone					
J-1004	1078.00 107	9.00 Hornfels					
J-1004	1089.00 109	8.00 Hornfels					
J-1004	1098.00 110	9.30 Sandstone					
J-1004	1109.30 111	0.30 Hornfels					
J-1004	1110.30 115	0.00 Sandstone					
J-1004	1150.00 115	3.20 Hornfels					
J-1004	1153.20 119	4.00 Sandstone					
J-1004	1194.00 121	2.00 Hornfels					
J-1004	1212.00 123	0.60 Tonalite		Dike	Aphanitic		Green
J-1004	1230.60 132	3.00 Hornfels					
J-1004	1323.00 140	4.00 Tonalite		Dike			Green
J-1004	1404.00 143	6.80 Hornfels					LightBrov
J-1004	1438.80 147	3.40 Tonalite	4	Aphanitic			Green
J-1004	1473.40 148	0.00 Marble					Grey
fonday, May	21, 2012						Page 2 of

# Geo-Information Solution Detail Drill Hole Report

# Surface Dispatch

The **Surface Geochemistry Dispatch** tool creates a dispatch sample preparation report used for assembling a batch of samples to send to an assay lab, including QAQC samples, and it creates a report to send to the assay lab showing the samples dispatched and a count of the samples submitted. The dispatch number is automatically generated using the current data and time (for example; 20120520101439 is YYYYMMDDHHNNSS).

Home Crea	Geolnfo Tools Database, Geo-Information Solutions, www.GeolnfoSol.com      de Database Tools	
GeoI Current B Database Tools	One of the second batabase         by Geo-Information Solutions         Active Project:         SanJose           ackend Database:         C:\Data\GeoInfoDatabase\Testing_GeoInfoDatabase\Testing_GeoInfoTools_Backend_GeoInformationSolutions.mdb         Re-link           Reports         Surface Dispatch         Drill Dispatch         QAQC Tools         Drill Assay Settings         Best Analysis         Composites/Equivalents         Import/Export         Replication         Settings	
Create Surfac	ee Geochem Dispatch Using Form View Surface Geochem Dispatch Dispatch Excel Importer - QAQC	
Dispatch Rej	port Text Values - *company and project default from above settings	
Title:	SAMPLE DISPATCH	-
Header1:	Millrock Resources	•
Header2:	Lab: Skyline, Tucson	•
Header3:	Analysis Method: TE-3	•
Header4:	Send Invoice, To: rlippoth@millrockresources.com	•
Header5:	Transportation By: Hand	•
Header6:	Person Responsible for Dispatch: Wade Bullock	•
Header7:	Shipping Authorization Signature:	•
Header8:	Webtrieve, Certificate, QC Cert and Data File Results to:	
Header9:	wbullock@millrockresources.com, Mike.Schaefer@GeoInfoSol.com, rlippoth@millrockresources.com	•
Form View	N	um Lock Scroll Lock

**Dispatch Report Text Values** include a title and 9 header text rows for inclusion on dispatch reports. Some suggested values are available in the dropdown lists but any values can be entered. Once text values have been entered, they are saved for the active project. Design these header values so you can submit the dispatch form directly to the lab with all the instructions that are necessary for analysis.

Select a dispatch type from the **Create Surface Geochem Dispatch Using Form** pick list.

	A GeoInfo Too	Is Database, Geo-Information Solutions, www.GeoinfoSol.com	
Home Create External D	Data Database Tools		e
Geoinfo Tools v3.0b32	ce Geochem Sample Dispatch, GeoInfo Database Tools		×
Surface Geocher	n Dispatch By Sample Number		
Sample Series for t	his Despatch, dependant on active project	from main form	Pandomize Dispatch?
Sample From 1	0 - Sample To 1	0 -	When randomizeed QAQC samples are evenly distributed
Sample From 2	0 - Sample To 2	0 -	Create Dispatch
Sample From 3	0 🗸 Sample To 3	0 -	Dispatch number automatically created from date and time
Sample From 4	0 - Sample To 4	0 -	* Required Fields
Sample From 5	0 🗸 Sample To 5	0 -	
Sample From 6	0 🗸 Sample To 6	0 -	
Sample From 7	0 - Sample To 7	0 -	Delete Dispatch
Sample From 8	0 🗸 Sample To 8	0 -	Dispatch
Sample From 9	0 - Sample To 9	0 🗸	Delete Dispatch Job
Sample From 10	0 - Sample To 10	0 🗸	
Form View			Num Lock Scroll Lock 📴 🖬 🚳 😫

Select up to 10 From - To sample number intervals to dispatch from the database. Samples listed are only samples that have not been dispatched and only for the active project. Once dispatched, samples will no longer exist in the lists. Intervals are inclusive of all samples between the From - To values. Gaps are not a problem as only samples listed will be dispatched.

The user has the option to randomize samples for lab QAQC control. If **Randomize Dispatch** is checked, then sample numbers are listed in random order on the submittal report that is generated for the assay lab. It is good to have one of your custom text values instruct the lab to analyze the samples in the order provided on the report. If a dispatch is randomized the dispatch QAQC samples are evenly distributed within the random sample number order provided to the lab. This is helpful in that QAQC samples can be added just before dispatch without needing to make sure sample numbers are evenly distributed within the original field number series; the randomizer will distribute the QAQC samples evenly through the batch even if the QAQC sample numbers are grouped together at the end of the sample number series.

Clicking the **Create Dispatch** button will generate two reports. The first report is for internal use, and is used to build the dispatch for shipping, including preparing the QAQC samples with sample numbers. Even with randomized dispatches sample numbers in this report are in sample number order for ease of building the shipment.

# **Geo-Information Solutions**

#### SanJose Project

#### Build Dispatch 20120326151643 List

99 100 122 111 188 19 19 19 19 19 19 19 19 19 19 19 19 19	Roak Roak Roak Roak Roak Roak Roak Roak			CVanluven KNegri KNegri KNegri KNegri KNegri CVanluven CVanluven CVanluven CVanluven KGibler
10 12 13 14 14 15 13 13 13 13 13 13 13 13 13 13 13 13 13	Noak Roak Roak Roak Roak Roak Roak Roak R			KNegri KNegri KNegri KNegri KNegri KNegri CVanluven CVanluven CVanluven KGibler KGibler
22 11 14 15 15 13 22 15 14 19 18 14 14 15 18 16 15 16 15	Noak Roak Roak Roak Roak Roak Roak Roak R			KNegri KNegri KNegri KNegri CVanluven CVanluven CVanluven KGibler KGibler
11 18 18 19 19 13 13 15 13 15 14 19 18 14 14 15 16 16 16 16	Roak Roak Roak Roak Roak Roak Roak Roak			KNegri KNegri KNegri KNegri CVanluven CVanluven CVanluven KGibler KGibler
18 14 15 13 12 5 5 14 19 18 14 15 16 16 16 16	Roak Roak Roak Roak Roak Roak Roak Roak			KNegri KNegri KNegri CVanluven CVanluven CVanluven KGibler KGibler
4 43 55 5 5 5 44 9 9 8 8 4 4 4 5 5 6 5 5	Rock Rock Rock Rock Rock Rock Rock Rock			KNegri KNegri CVanluven CVanluven CVanluven KGibler KGibler
24 15 13 13 15 14 19 19 18 14 14 15 16 15 16	Roak Roak Roak Roak Roak Roak Roak Roak			KNegri KNegri CVanluven CVanluven CVanluven KGibler KGibler
15 13 12 15 14 19 18 14 14 15 15 16 15	Rodk Rodk Rodk Rodk Rodk Rodk Rodk Rodk			KNegri CVanluven CVanluven CVanluven KGibler KGibler
13 2 5 5 14 9 9 88 14 14 15 15 16 15	Rock Rock Rock Rock Rock Rock Rock Rock			CVanluven CVanluven CVanluven KGibler KGibler
2 5 4 9 9 8 4 4 4 5 5 5 5 5	Rock Rock Rock Rock Rock Rock Rock Rock			CVanluven CVanluven KGibler KGibler
5 14 19 88 84 14 15 15 16 16	Rock Rock Rock Rock Rock Rock Rock			CVanluven KGibler KGibler
14 9 8 4 4 5 6 6 5	Rock Rock Rock Rock Rock Rock Rock			KGibler KGibler
9 8 4 15 15 16 3	Rock Rock Rock Rock Rock			KGibler
18 14 15 16 5	Rock Rock Rock Rock			1/Chillen
4 5 6 5	Rock Rock Rock			Kolpief
14 15 16	Rock Rock			KGibler
15 18 19	Rock			KGibler
16 ;				KGibler
) 10	Rock			KGibler
0	Rock			KGibler
13	Rock			KGibler
7	Rock			KGibler
37	Rock			KGibler
18	Book			KGibler
3	Rock			KGibler
12	Rock			KGibler
8	Rock			KGibler
7	Po de			Kobler
<i>n</i> ce	Rock			Kölbler
.2	Deale			Kobler
	Rock			Kobler
5	Rock			KGibler
	ROOK			KGibler
_	Rock			KGibler
27	Rock			KGibler
13	Rock			KGibler
90	Rock			KGibler
10	Rock			KGibler
17	Rock			KGibler
21	Rock			KGibler
54	Rock			KGibler
8	Rock			KGibler
8	Rock			KGibler
81	Rock			KGibler
20	Rock			KGibler
25	Rock			KGibler
	Rock			KGibler
2012				Dece 1 - 63
	3 3 6 7 2 7 3 0 0 7 1 4 8 8 1 0 5 5 2 2012	3 Rock 3 Rock 6 Rock 7 Rock 2 Rock 2 Rock 4 Rock 7 Rock 3 Rock 3 Rock 0 Rock 1 Rock 1 Rock 1 Rock 8 Rock 8 Rock 8 Rock 1 Rock 1 Rock 1 Rock 5 Rock 5 Rock 5 Rock 5 Rock 5 Rock	3 Rock 3 Rock 3 Rock 4 Rock 2 Rock 4 Rock 5 Rock 1 Rock 1 Rock 1 Rock 1 Rock 3 Rock 1 Rock 4 Rock 8 Rock 8 Rock 1 Rock 1 Rock 1 Rock 1 Rock 2 Rock 3 Rock 3 Rock 3 Rock 4 Rock 5 Rock 5 Rock 5 Rock 5 Rock 5 Rock 6 Rock 7 Rock 7 Rock 8 Rock 8 Rock 9 Rock	3 Rock 3 Rock 3 Rock 4 Rock 4 Rock 5 Rock 1 Rock 1 Rock 1 Rock 1 Rock 3 Rock 1 Rock 3 Rock 1 Rock 4 Rock 8 Rock 8 Rock 8 Rock 9 Rock 1 Rock 1 Rock 1 Rock 1 Rock 1 Rock 2 Rock 3 Rock 3 Rock 1 Rock 4 Rock 5 Rock 5 Rock 5 Rock 4 Rock 5 Rock 5 Rock 7 Rock 7 Rock 8 Rock 8 Rock 8 Rock 9 Rock

The second report generated is used to send to the lab with the shipment, this report replaces the lab submittal form. The company, project, title and header text fields are printed on the report and a list and total count of samples is provided. If randomized, sample numbers will be listed in random order.

Geo-Informati	ion Solutions		
SanJose Proi	ect		
		21 May 12	
SAMPLE DISPATCI	•	21-may-12	
Geo-Information Sol	utions., San Jose Project		
Lab: Skyline, Tucsor	1		
Samples: 832601 - 8	32604, Total Samples: 4		
Send Invoice, 10: M	S@GeoInfoSol.com.com		
Pareon Deenoneible	for Dienatch: Mike Schaef	ar 520 444 4269	
Person Responsible	for Dispatch, write Schaen	3, 320.444.4203	
Shin nin q Authorizati	on Signature:		
Diese snakeize om	anles in the order provided		
Webtrieve, Certificate. Q	C Cert and Data File Results to M	S@GeoInfoSol.com	
Sample Numbers:	* down then across orde	r	
30509	476622	476623	
1/6621	476629	476628	
+/ 0020	030503	830502	
141135	476623	630504	
176619	4/0031	470010	
30602	441132	476609	
476619	476605	476624	
76634	441137		
330507	830508	Sample Total	
330506	476611	60	
441164	441134		
476613	440201		
476604	441131		
441165	441133		
476615	830604		
476610	441163		
476630	476601		
476602	476606		
476632	476612		
476627	476626		
4/6617	830601		
4/0614	830603		
441136	830501		
+/0033 176607	030505 831604		
+10001	001001	_	
Dispatch: 201203	26151643	Pa	age 1 of 1

Dispatches can be deleted by selecting the dispatch from the **Delete Dispatch** pick list (only the dispatch ID field for the sample is deleted no data).

The **View Surface Geochem Dispatch** pick list lists all dispatches that have been created in the database. Select a dispatch to recreate the reports that are generated when a batch is first created.

# **Drill Dispatch**

Drill dispatch is much like the <u>Surface Geochemistry Dispatch</u> tool and users are referred to that section for details.

	Ceclifo Tools Database, Geo-Information Solutions, www.GeoInfoSol.com		X
Home	Create External Data Database Tools		×
H Geo Curren	DINFO TOOIS Database by Geo-Information Solutions Company: Geo-Information Solutions Active Project: SanJose tt Backend Database: C:\Data\GeoInfoDatabase\Testing_GeoInfoTools_Backend_GeoInformationSolutions.mdb Re-link	•	
Database To	ools Reports Surface Dispatch Drill Dispatch QAQC Tools Drill Assay Settings Best Analysis Composites/Equivalents Import/Export Replication Settings		
Create Dis	patch Using Form		
	•		
View Dispa	atch		
	•		
Dispatch I	Report Text Values - *company and project default from above settings		
Title:	SAMPLE DISPATCH	•	
Header1:	Geo-Information Solutions., San Jose Project	•	
Header2:	Lab: Skyline: SP-1, FA-1, TE-3 (Over Limits: Cu > 10,000 ppm, Au FA-2)	•	
Header3:	San Jose Project	•	
Header4:	Send Invoice To: MS@GeoInfoSol.com.com	•	
Header5:	Send Copy of Report To: MS@GeoInfoSol.com.com	•	
Header6:		•	
Header7:	Contact: Mike Schaefer 520.444.4269	•	
Header8:	Shipping Authorization Signature:	•	
Header9:	Samples Listed in Order to be Analyzed	-	
Form View	Num L	ock Scroll Lock	

Drill dispatch has two dispatch types. The **BySampleNumber** dispatch type is similar to the Surface Geochemistry Dispatch tool and samples are dispatched by sample number. The **ByShipmentBatch** dispatch type dispatches sample numbers by ShipBatch (Shipment Batch) and group's lists of samples for dispatch by shipment batch (bag).

# **QAQC** Tools

# **Batch Queries**

Select a batch from the **Select A Batch** pick list. QAQC queries can be opened from the **Select QAQC Query To View** pick list. This query list is a simple QAQC analysis start however more queries can be designed as requested. All the QAQC queries for the selected batch can be exported to a single Excel spreadsheet for analysis.



# Blank-Standard-Duplicate Plot Reports

Reports with plots of Blank, Standard, Field Duplicate, Reject Duplicate and Pulp Duplicate samples can be generated for a complete project, a batch, a sample type or a selection of drill holes. All elements or select elements can be plotted. Standard and Blank reference value settings (certified value and measured standard deviation) can be entered and stored in the database using these tools.

Current Backend Database: CiData/GeoLinforDatabase: Current Backend Database: CiData/GeoLinforDatabase: CiDataBase: CiDat	Re-link ation Settings Auto Insert Settings StDev o Database abase records only /alue StDev
GeoInfo Tools Database by GeoInformation Solutions Company: GeoInformation Solutions Active Project: SanJose     Current Backend Database: C:\Data\GeoInfoDatabase\Testing GeoInfoTools_Backend_GeoInformationSolutions.mdb     Database Tools Reports Surface Dispatch Drill Dispatch QAQC Tools Drill Assay Settings Best Analysis Composites/Equivalents Import/Export Replication Set     Batch Queries Blank-Standard-Duplicate Plot Reports Batch Randomization Tools     Batch Queries Blank-Standard-Duplicate Plot Report Tools     Beatch Queries Blank and Standard Plots Report     Select a Batch *or     Duplicate Plots Report     Duplicate Plots Report     Incude © Field © Reject © Pulp     *dements plotted dependent on selections below     Duplicate Comparison Plots Report     *ore required or if all are blank report will     plot the complete active project     *ore required or if all are blank report will     plot the complete active project     *ore required or if all are blank report will     plot the complete active project     *ore required or if all are blank report will     plot the complete active project     *ore required or if all are blank report will     plot the complete active project     *ore required or if all are blank report will     plot the complete active project     *ore required or if all are blank report will     plot the complete active project     *ore required or if all are blank report will     plot the complete active project     *ore required or if all are blank report will     plot the complete active project     *ore required or if all are blank report will     plot the complete active project     *ore required or if all are blank report will     plot the complete active project     *ore required or if all are blank report will     plot the complete active project     *ore required or if all are blank report will     plot the complete active project     *ore required or if all are blank report will     plot the complete active project     *ore required or if all are blank report will	Re-link ration Settings Auto Insert Settings StDev • Database abase records only /alue StDev
Batch Queries       Surface Dispatch       Drill Dispatch       QAQC Tools       Drill Assay Settings       Best Analysis       Composites/Equivalents       Import/Export       Replication       Set         Batch Queries       Blank-Standard-Duplicate Plot Reports       Batch Randomization Tools       Batch Drill Sample Reanalysis       Log Form QAQC Sample Auto Insert         Select a Batch       *or       *or       *or       Plot Report Tools       Standard/Blank Reference Value Settings         Select a Sample Type       *or       *elements plotted based on reference value settings       OAQCID       Type         Select a Drill Hole       *       Duplicate Plots Report       Null       Add /Edit/Save Above Reference Value Settings         Chrill Hole List>       *       *       Puplicate Comparison Plots Report       Puplicate exists for         *one required or if all are blank report Will plot the complete active project       *       Puplicate and Pup Duplicate exists for       *	ation Settings Auto Insert Settings StDev StDev abase records only (alue StDev
Batch Queries       Blank-Standard-Duplicate Plot Reports       Batch Randomization Tools       Batch Drill Sample Reanalysis Tool       Log Form QAQC Sample Auto Insert         Select a Batch *or <ul> <li>Plot Report Tools</li> <li>Blank and Standard Plots Report</li> <li>*elements plotted based on reference value settings</li> <li>Duplicate Plots Report</li> <li>Inlcude Plots Report</li> <li>Pieterents plotted dependent on selections below</li> <li>Duplicate Comparison Plots Report</li> <li>*orm required or if all are blank report Will plot the complete active project</li> <li>Point Sample only. Plots samples only where Pield</li> <li>Duplicate the Plot Sample only where Pield</li> <li>Duplicate Plots Report</li> <li>*orm required or if all are blank report Will</li> <li>Piott Bamples only. Plots samples only where Pield</li> <li>Duplicate Plots Report</li> <li>*orm required or if all are blank report Will</li> <li>Piott Bample only.</li> <li>Point sample only.</li> <li>Point sa</li></ul>	Auto Insert Settings  StDev  Database  abase records only /alue StDev
Select a Batch *or Select a Sample Type *or CDrill Hole List> *ore required or if all are blank report tvill plot the complete active project *ore required or if all are blank report tvill plot the complete active project *ore many for the same formal analytic transfer only. Plots samples only where Field Duplicate Plots Report *ore required or if all are blank report tvill plot the complete active project	StDev  Database abase records only /alue StDev
Select a batch or       •       •       Type         Blank and Standard Plots Report       •       •       •         Select a Sample Type •or       •       •       •       •         •       •       •       •       •       •         Select a Drill Hole       •       •       •       •       •       •         Select a Drill Hole       •	StDev  Database abase records only /alue StDev
Select a Sample Type •or • • • • • • • • • • • • • • • • • •	StDev  Database abase records only /alue StDev
Duplicate Plots Report Incude © Field © Reject © Pulp     *elements plotted dependent on selections below     Duplicate Comparison Plots Report     *one required or if all are blank report will     plot the complete active project     *Orill samples only. Plots samples only where Field     Duplicate exists for	abase records only /alue StDev
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Chrill Hole List>       *elements plotted dependent on selections below     StandardBlank     Type     Element     Unit     Value     <	Value StDev
*One required or if all are blank report will plot the complete active project Duplicate, Reject Duplicate and Pulp Duplicate exists for the same original same humber.	
Plot Elements Element 1 Flement 6	
All Elements Included in Plots     Element 2     Element 7	
or Elements Selected> Element 3 - Element 8 -	
*entered values saved Element 4 • Element 9 •	
as defaults by project Element 5   Element 10  Record H < 1 of 1 > H >> % ho filter Search	

#### **Blank and Standard Plots**

Blank sample plots show measured values against a reference value (the certified value), and 10% and 15% upper error limits. Standard sample plots show measured values against the reference value, 2<sup>nd</sup> standard deviation limits (95% confidence level), 10% error limits and 15% error limits.



Before a Blank and Standard Plot report can be created you must enter the reference value for each Blank and Standard for each certified element. Select the **QAQC ID** from the pick list (QAQC ID types need to first be entered into the VT\_Standards validation table) and then select a **Type**, **Element**, **Unit**, **Value** and **StDev** (only for Standards not Blanks and only the first standard deviation as the database will calculate the 2<sup>nd</sup> StDev), then click the **Add/Edit/Save Above Reference Value Settings to Database** button to save this data to the database. Plots will be created for each Blank and Standard for each reference element entered.

Sta	Standard/Blank Reference Value Settings									
QA	QCID	MARBL	.E		•	Туре	Blank		•	
Ele	ment	Cu	• Unit	ppm -	Value 2		StDev		7	
*lea	ave value	e field em	pty and sa	ve to delete	a record, or de	elete in tal	ble belo			
Add /Edit/Save Above Reference Value Settings to Database										
Standard/Blank Values in Database *for viewing and deleting database records only										
	Stan	dardBlaı	nk	Туре	Element	Unit	Value	StDev		
N	1ARBLE			Blank	As	ppm	2			
N	1ARBLE			Blank	Au	ppb	5			
S	108005)	KCuAuST	D	Standard	Au	ppb	450	4		
S	108005)	KCuAuST	D	Standard	Cu	pct	0.4	0.1		
*										
Record	d: l4    4   2 of	4	👯 🛛 🛣 No Fi	iter Search						
Litecon	u <u>2</u> 01			Jearch						

Select a **Batch**, a **Sample Type** or a **Drill Hole** (select multiple holes one at a time to build a list of more than one hole) from the pick lists on the left. If all these pick lists are blank, then the report will be generated for the entire project (which can be slow and cluttered).

Click the Blank and Standards Plots Report button to generate the report.

# **Duplicate Plots**

Duplicate plots show measured values against a reference value (1:1 trend line), 10% error limits and 15% error limits.



Plots are created for all elements if the **All Elements** check box is checked or select elements if unchecked. If you want select elements enter these in the element fields provided; up to 10 elements can be selected. Plot creation performance is better with only selected elements.



Select the types of duplicates you want included in the plots using the **Field**, **Reject** and **Pulp** check boxes.

Select a **Batch**, a **Sample Type** or a **Drill Hole** (select multiple holes one at a time to build a list of more than one hole) from the pick lists on the left. If all these pick lists are blank then the report will be generated for the entire project.

Click the **Duplicate Plots Report** button to generate the report.
#### **Duplicate Comparison Plots**

Duplicate Comparison plots look similar to Duplicate plots and show measured values against a reference value (1:1 trend line), 10% error limits and 15% error limits, however this report creates a different plot for each duplicate type.



This is a more specific plot and is for drill samples only. It requires a specific sampling protocol; a Field Duplicate of an Original sample, a Reject Duplicate of an Original sample, and Pulp Duplicate of an Original sample. All four samples have to exist for this plot. The database sampling needs to look like this;

	tbIDHSamples												
HoleID	From	То	SampleNo	QAQCType	QAQCID								
SJ0001	32.92	34.71	50944										
SJ0001			50945	FieldDuplicate	50944								
SJ0001			50946	RejectDuplicate	50944								
SJ0001			50947	PulpDuplicate	50944								

Select a **Batch** or a **Drill Hole** (select multiple holes one at a time to build a list of more than one hole) from the pick lists on the left. If all these pick lists are blank then the report will be generated for the entire project, which can be very slow to process!

Click the **Duplicate Comparison Plots Report** button to generate the plot.



#### **Batch Randomization Tools – Plot Analysis**

These tools create randomized sample batch line graph plots designed to analyze for lab errors in a randomized batch; with randomized samples a nice normal distribution plot of an element likely indicates a lab problem. We expect to see a completely random plot with good lab data.

Home Create External Data Database Tools	GeoInfo Tools Database, Ge	eo-Information Solutions, www.GeoInfoSol.com		l	_ 0 _	×
GeoInfo Tools v3.0b32						×
GeoInfo Tools Database by Geo-Inform Current Backend Database: C:\Data\GeoInfoDatabase\Testin	action Solutions Company: Geo- g_GeoInfoTools_Backend_GeoInformatic	Information Solutions	Active Project: SanJose	e-link	•	
Database Tools Reports Surface Dispatch Drill Dispatch	QAQC Tools Drill Assay Setting	gs Best Analysis Composites/Eq	uivalents Import/Export Replication Settings			
Batch Queries Blank-Standard-Duplicate Plot Reports	Batch Randomization Tools	Batch Drill Sample Reanalysis T	Tool Log Form QAQC Sample Auto Insert Settin	ngs		
Select a Batch *Required Ba	tch Plot Tools - Randomizatio	n Analysis				
	Interactive Lab Seq	uence Plots				
	Lab Sequence Plo	ots Report				
*e	elements plotted dependent on se	elections below				
Plot Elements						
All Elements Included in Plots	Element 6					
or Elements Selected> Element 2	Element 7					
*entered values saved Element 4	Element 9					
as defaults by project Element 5	Element10					
Form View				Num Lock	Scroll Lock	<u> </u>

The **Interactive Lab Sequence Plots** tool allows the user to select any element and view a plot.



The **Lab Sequence Plots Report** creates a report containing either all the elements in the batch or select elements.

Plots are created for all elements if the **All Elements** check box is checked or select elements if unchecked. If you want select elements enter these in the element fields provided; up to 10 elements can be selected.



#### Reanalysis Tool

The Reanalysis Tool automatically logs Field, Pulp, and Reject duplicates into the database. Reanalysis is based on percentages of the total batch sample count.

- 1. Select a batch from the **Select A Batch** pick list to the left. The count of samples in that batch will display in the Reanalysis tool.
- Type in the desired reanalysis percentages for each duplicate type and the tool will calculate the number of samples of each type to be logged to the right.
- 3. Enter a starting sample number making sure you have enough available numbers for all your new samples.
- 4. Then select a sort element which will be used to sort the list of sample numbers before the reanalysis samples are even selected down the list; in the case below by selecting Ag as the sort element you will be assured that high, moderate and low Ag values will be selected for reanalysis as the samples are selected for reanalysis in even increments down an element sorted list.
- 5. The **Create Reanalysis Samples** button creates the reanalysis samples (automatically logs these samples) based on the settings above.

ase I ools Re	ports Surface Dispatch Drill Dispa	tch QAQC Tools Drill Assay Settings	Best Analysis	Composites/Equivalents	Import/Export Replication	Settings	
atch Queries	Blank-Standard-Duplicate Plot Re	eports Batch Randomizaton Tools	Batch Drill Sa	ample Reanalysis Tool	Log Form QAQC Sample A	uto Insert Settings	
elect a Bat	ch required * The based sample sample	Reanalysis Tool creates new samples for on desired percentages of Field, Pulp an es. Samples are selected evenly through on the values of the sort element select reanalyzing high, medium and low value . New samples numbers are sequenced through the Dipatch as amples when you are done creating r through the Vield Tool will create a repor d to build the reanalysis batch.	reanalysis I Reject the batch d. Thus you samples starting with 1 Tool to eanalysis t list that can	Reanalysis     Tool = 1       Reanalysis     vis       Field     %       10     s       Pulp     %       15     a       Reject     20       15     starting       Starting     Sample       Analysis     Sort Element       Au_ppb_Best	56 Batch Samples Only 56 Batch Sample Count 5 Field Duplicate Samples 8 Pulp Duplicate Samples 11 Reject Duplicate Samples 100200 ent: analysis Samples		

#### Log Form QAQC Settings

Users can setup defaults to automatically insert QAQC samples as samples are being logged into the database using one of the drill log forms.

Home Create External Data Database Tools	GeoInfo To	ols Database, Geo-Information	Solutions, www.GeoInfoSol.com			- 0 - × -
GeoInfo Tools Databa Current Backend Database: C:\Data\Geo	SC by Geo-Information Solutions Compo DinfoDatabase\Testing_GeoInfoTools_Backend_	any: Geo-InformationSolutions.	tion Solutions Ad	ctive Project: SanJose	Re-link	•
Database Tools Reports Surface Dispat Batch Queries Blank-Standard-Dupl	ch Drill Dispatch QAQC Tools Drill As icate Plot Reports Batch Randomizat Log Form QAQC Insertion and Sh	ion Tools Batch D Batch D	nalysis Composites/Equiv rill Sample Reanalysis Too Counting Settings - b	ralents Import/Export Replication Setting Log Form QAQC Sample Auto Insert Se y Project	js ettings	
	QAQC 1 Start Sample: QAQC 2 Start Sample: QAOC 3 Start Sample:	<ul><li>20 Interval:</li><li>40 Interval:</li><li>60 Interval:</li></ul>	80 Standard ID: 80 Standard ID: 80 Standard ID:	MEG-S105004X - MEG-S107005X - MEG-S107020X -	]	
	QAQC 4 Start Sample: Samples Per Shipment Batch :	80 Interval: 30	80 Standard ID: *Leave bla	S108005XCuAuSTD -		
	*leave fields blank if you do not want auto-co	ounting of shipment batch	or auto-insertion of standards i	n the log form.		
Form View					Num Lock	Scroll Lock

If you do not want to automatically insert QAQC samples in the log forms leave all these setting fields blank.

If you want to enter just a single QAQC sample after a specific number of samples have been entered for a drill hole enter that number in the QAQC X **Start Sample** field. If you want to then increment from that number of samples and insert a QAQC sample at a defined interval, then enter that interval number in the QAQC X Interval field. If you want the user to be prompted to select a QAQC ID or Standard ID from the *VT\_Standards* lookup table in the database leave the QAQC X Standard ID field blank; if however you want a specific Standard ID, Blank, or Course Blank (anything in your *VT\_Standards* lookup table) automatically inserted then select a value for the QAQC X Standard ID field. Various combinations of entering values in these setting fields or leaving them blank can set up many ways to auto-enter QAQC values as you log samples in a drill log form.

The example settings shown above will insert MEG-S105004X at 20, 100, 180, etc... MEG-S107005X at 40, 120, 200, etc ...

The **Samples Per Shipment Batch** field sets the default number of samples that will be defaulted to a shipment batch in the Sample tab of the log form. This is generally used for grouping samples for shipping in larger rice bags. If a value is

selected for this default and the user enters a ShipBatch number in the log form the ShipBatch field will be populated/repeated automatically as samples are added for a hole until the default number of samples is reached and then the ShipBatch number will automatically incremented up one number.

# **Drill Assay Settings**

Drill assay settings set the order, decimals, and highlighting that is displayed in reports and forms (including queries open via the form option). Anytime you edit these settings make sure to run the <u>Update Project Analysis Queries</u> tool. Note that the reports are based on 5 element groups which is the number of elements that will fit on one page of a report.

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Se	ettings for Reports I og Form	s and Que	rv Best A	nalv	sis Order * •	ar adit/add undata	project querie	~	Update Project Analysis Queries		
	Analyses 1 Percet	Decimal	s Wahlah		Analyses 4 Report	Decimals	Highlight >		Analyses 7 Percet		
1:	Cu ppm Best	- 0	- 10	16:	Analyses + Report	-	- Ingringrit	31:		- Ingringrit >=	
2:	Mo ppm Best	- 0.0	- 10	17:		-		32:		-	
3:	Ag ppm Best	- 0		18:		-	-	33:			
4:	Pb ppm Best		- 10	19:		-	-	34:		-	
5:	Zn ppm Best	. 0	- 10	20:		-		35:			
	Analyses 2 Report				Analyses 5 Report	-			Analyses 8 Report		
6:	Au_ppb_Best	• 0	- 10	21:		-	-	36:		-	
7:		•	-	22:		-	-	37:		-	
8:			-	23:		-	•	38:		-	
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10	:	-	-	25:		-	-	40:		•	
	Analyses 3 Report				Analyses 6 Report				Analyses 9 Report		
11	:	-	-	26:	:	-	-	41:	•	•	
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#### **Best Analysis**

The best analysis tool creates a new analysis field/column for an element that contains the best available analyses for each sample. This is needed when you have elements that have been analyzed by different analysis and digestion methods because each method will create a new column in the database, thus you might have the same element spread out over 5 or more different columns.

If you are returned an over limit result it is common to then run a better analysis method to get a better estimate of the metal value. If you do run the over limits with a better method, you then have two values for the same sample and element, and the best analysis tool will make sure you get the proper result in a single best column for analysis. *For example*; Cu from ICP returned as >10,000 ppm is in the database as 10,000 ppm in a column named Cu\_ppm\_ICP\_GEO4ACID. If this over limit sample is then analyzed with AAS, which is commonly done, then a result like 1.56% will be in the database in column named Cu\_pct\_AAS\_ASYAR01. To get one field in your project queries with Cu AAS results where they exist and Cu ICP results where AAS values do not exist create a best analysis field for Cu with Cu\_pct\_AAS\_ASYAR01 ranked first (this is a better result) and Cu\_ppm\_ICP\_GEO4ACID ranked second.

When you set up the project best analyses with the various methods in the proper quality order you will be assured of using the best result for analysis. The best analysis tool computes unit conversion where needed. You also have an option to assign a **Cut Value** for elements. Best analyses are set for each surface geochemistry sample type and drill/trench samples independently.

Current Back	end Database	: C:\Data\GeoInf	oDatabase\Tes	ting_GeoInfoTools_Backend_GeoInformationSc	olutions.mdb	Re-link
t Analysis T	Reports Su Table - list	inface Dispatch	Drill Dispat	ch QAQC Tools Drill Assay Settings	Best Analysis Composites/Equivalents I	Drill Methods in DB
ampleType	Element	Profored Init	CutValue	Bank01	Rank02	that nom AAS EA
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ill	Au	ppb		Au ppm AAS FA	Au ppb AAS FA	Al pct ICPMS AR
ill	Cu	ppm		Cu pct AAS UNK	Cu ppm ICPMS AR	As ppm ICPMS AR
ill	Mn	ppm		Mn pct AAS UNK	Mn ppm ICPMS AR	Au ppb AAS FA
il	Mo	ppm		Mo. pct AAS UNK	Mo. ppm ICPMS AR	Au_ppm_AAS_FA
ill	Pb	ppm		Pb pct AAS UNK	Pb ppm ICPMS AR	Ba_ppm_ICPMS_AR
ill	Zn	ppm		Zn pct AAS UNK	Zn ppm ICPMS AR	Be_ppm_ICPMS_AR
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<u>۱</u>						Ca_pct_ICPMS_AR
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						Cs_ppm_ICPMS_AR
						Cu_pct_AAS_UNK
	\					Cu_pct_UNK_UNK
						Cu_ppm_ICPMS_AR

The best analysis form has a form view and list view. Double click on the left grey record selector box or bar to change views. Form view is easier for editing settings; makes setting Best Analyses easier as all 10 rank fields can be viewed without scrolling, and list view is better for navigating and reviewing settings.

Home Create E	xternal Data Database Tools		GeoInfo Tools Database, Geo-In	formation Solutions, www.GeoInfoSol.com		_		_ 0	X		
GeoInfo Tools Database         by Geo-Information Solutions         Active Project:         SanJose           Current Backend Database:         Cr\Data\GeoInfoDatabase\Testing_GeoInfoTools_Backend_											
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Anytime you edit Best Analysis settings you have to run the <u>Update Project</u> <u>Analysis Queries</u> tool. The queries are where the best analysis fields are created.

Anytime you add new analysis methods to your database you will want to edit your Best Analysis settings.

\*Note: Make sure to run the <u>Update Analysis Tables</u> tool after new assay results are added to the database to make sure you are seeing all the available results.

\*Note: Query qryALLDH\_AnalysisMethodsNotAssignedBestAnalyes shows drill analysis methods that have not been assigned to a best analysis. Check this list frequently to make sure all results in your database have been assigned to your best analysis settings.

## **Composites / Equivalents – Drill Holes**

Drill hole composite and equivalent settings allow logging of composite intervals manually in the drill log forms (the database automatically calculates composites and equivalents as you are logging the intervals; it's an interactive tool) or automatically using the Auto Composite Tool.

#### Composite / Equivalent Settings

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H Geoim	O TOOIS Databa	dSe by	y Geo-Information	n Solution	s Comp	any: Geo-Ir	Trormation Sc	olutions	Active Project: Sa	njose	De liek	•
Current Back	end Database: C:\Data\Ge	oinioDau	abase (resung_Ge	01110100	IS_Backenu	Geotriormations	solutions.mub	o			Re-link	
Database Tools	Reports Surface Dispat	tch Dril	Dispatch QA	AQC Too	Drill A	ssay Settings	Best Analysis	Composites/Ed	quivalents Import/Exp	ort Replication	Settings	
Analysis Source: qry)	OXDH AnalysesBest		-	Com	posites ar	e manually lo	gged in the lo	g forms or the	Auto Composite Tool c	an be used.		
* Use qryXXDHAnaly fields, otherwise use Controls Log assays Composite Eler	ises unless you have problem qryXXDHAnalysesBest or qry as well. <b>nents</b>	ns with to /XXDHAna	o many assay alysesBest. Log Highlight Value >=	* af form	ter editing/a n Update Pri	dding any setting oject Base Querie	s on this	Update Proje	ct Analysis Queries	Au	to Composite To	ol
Composite 01:	Cu_ppm_Best	•	300	Meta	al prices	are required	for all comp	osite elements	s if equivalent values	are included		
Composite 02:	Mo_ppm_Best	•	10		Metal	Price	Unit	Source	ValueFactor	Comment		
Composite 03:	Au_ppb_Best	-	100	Ag	, -	\$25.00	ozt		1			
Composite 04:	Ag_ppm_Best	-	2	Au	1	\$1,500.00	ozt		1			
Composite 05:	Pb_ppm_Best	•	500	CL	l I	\$3.50	lb		1			
Composite 06:	Zn_ppm_Best	•	500	M	D	\$14.00	lb		1			
Composite 07:		•		Pb	)	\$1.00	lb		1			
Composite 08:		•		Zn	1	\$1.00	lb		1			
Composite 09:		•		**		\$0.00			1			
Composite 10:		-										
<b>V</b>	Equivalent Included		Equivalent Unit									
Equivalent Element:	Cu	-										
Equivalent Unit:	pct	-	Equivalent Value	e								
* calculated for c	omposite and assay intervais	5.										
quivalent Value Unit	Tonne	•		Record:	H - 1 of 6	► N MB W N	o Filter Search					
rm View											Num Lo	ck Scroll Lock

First you select the elements you want to use for composite calculations. Generally it is good to first create Best Analyses and use these fields for composites as all the data for single element is then in one column.

Check the **Equivalent Included** box to include equivalent values to your composite calculations. Select an element and unit to report equivalents in, and Tonne or Ton units. Enter a metal value for each element included in the composite list. Equivalents are reported in the selected element/unit total and as dollar value per Tonne/Ton. **Value Factor** in the Metal Price table allows you to set recoveries in the equivalent calculations; 1 equals 100%, 0.8 equals 80%.

#### Logging Composites in Log Form

Logging composites is completed on the Composite tab of the Log <u>View/Edit/Data entry form</u>. The left table shows the elements you have set up for compositing and highlights values greater than the limit you set in the composite settings. The only editable table is the right Composites table. Here you enter a From - To interval and composite type, and optionally can enter a priority. Once the From - To interval is entered the composite and equivalent is automatically calculated in the bottom data view. This is an interactive tool and "what if" is easily explored.

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93	39	943			400		50	5		1	2	00	40	)		1136.5	1223	3 Gene	ral			2
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94	17	949			300		50	10		1	1	00	200	)		1263	1310.	7 Gene	ral			2
94	19	950	.5		200		50	5		1	10	00	20	)		1310.7	1671.9	Gene	ral			2
95	50.5	953	.5		200		50	5		1	2	00	20	)		1671.9	1953	3 Gene	ral			2
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			1136	6.5 1 <sup>·</sup>	145	8.50	Higher	Grade	Sub		2611.765		50	62.941	1	1	1	00	300	26.42	0.342	SJ96
			1136	6.5 12	223	86.50	Genera	al	2		1990.405		50	65.26	6	1.046	111.5	61	218.15	21.62	0.28	SJ96
			1223	3 12	263	40.00	Higher	Grade	Sub 3		4075		50	115.5	5	1.125	111	25	262.5	40.29	0.522	SJ96
			1263	3 13	310.7	47.70	) Genera	al	2		1762.893		50	71.551	1	1	1	00 1	89.099	20.04	0.26	SJ96
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#### Auto Composite Tool

The Auto Composite tool allows automatic logging/definition of composite intervals based on user specific criteria.

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Home Create	e External Data Database Tools	
GeoInfo Tools v3.1b1	Auto Composite Tool	
Auto Con	nposite Tool	
Logs composite equivalent value	intervals for a single drill hole , is used then by association m	/ trench or all active project holes based on the settings provided. If an letal prices also impact the interval picks.
Project:	SanJose	
Element:	Cu_Eqv_pct	▼ * element or equivalent, list based on composite settings
Cut Value >=	0.3 * minimum value to def	ine composite
Cut Length >=	20 * length of below cut va	lue accepted within composite, has to be larger than sample intervals.
Hole or All:	ALL HOLES	$\checkmark$ * process a single hole or all holes for the active project
Type / Name:	ACSJCuEqv_0.3_20	* auto-built but editable, 20 character limit, be descriptive enough to not create
Priority:	2	automaticily added to the VT_CompositeType table.
* required field		
		Delete Composites Tool
Create /	l og Composite Interval	Composite Type
create /	Log composite interval	• • • • • • • • • • • • • • • • • • •
		Delete Composites

**Element**: select an element to composite on. The list is based on your composite settings.

**Cut Value >=:** minimum values to include in a composite interval. All values at or above this threshold will be logged as a composite.

**Cut Length > =:** along with Cut Value this defines the composite intervals. This value is the maximum length of below Cut Value threshold values accepted within a composite interval. Once the length of less than the Cut Value setting values is reached the composite interval will end. A new composite interval will be started if values later in the hole are above the Cut Value setting.

Hole or All: One or All holes can be processed

**Type / Name**: Composite type name is automatically created based on the settings selected to create the composites, however this value can be edited as needed. AC for Auto Composite, XXX is project code, Element, Cut Value, and Cut Length. Unique names are encouraged so users can quickly delete Auto Composite runs using the **Delete Composites Tool**, users can test several setting quickly before settling on one that works best.

**Priority**: An optional priory can be assigned to composite intervals, this is an integer value.

Click the **Create / Log Composite Intervals** button when your settings are complete, and composites will be created/logged for one or all holes of your project.

#### **Equivalent Factors**

- "**ppm**" to "**lb**" = 0.002204624, 1ppm = 1gm, 1 oz = 28.3495 gm, 1 lbs = 16 oz, 16oz\*28.3495 gm = 453.592 gm, 1/453.592 = 0.002204624
- "**Ib**" to "ppm" = 453.592
- "**ppm**" **To** "**oz**" = 0.03527399, 1ppm = 1gm, 1 oz = 28.3495 gm, 1/28.3495 = 0.03527399
- "oz" To "ppm" = 28.3495
- "**ppm**" to "ozt" = 0.032150746, 1ppm = 1gm, 1 ozt = 31.1034768 gm, 1/31.1034768 = 0.032150746
- "ozt" To "ppm" = 31.1034768
- "ppm" To "ton" = 0.000001102, 1ppm = 1 gm, 1 lbs = 453.592 gm, 1 ton = 2000 lbs = 2000 lbs \* 453.592gm = 907184 gm, 1/907184 = 0.000001102
- "ton" To "ppm" = 907184
- "ppm" To "tonne" = 0.000001, 1 tonne = 2204.622 lb = 2204.622 \* 453.592 = 999998.9022 gm really 1000000, 1/1000000 = 0.000001
- "tonne" To "ppm" = 1000000
- "ppm" To "ppb" /1000
- "ppm" To "pct" \*10000
- "ppm" To "opt" \*34.2857

### **Import Export Tools**

Data can be exported from the database in Access database, Excel spreadsheet or CSV text file formats. Queries can be exported by Project, Prospect, Area, Drill Hole/Trench, or by individual Query.

An Access export creates a new database with a table for each query with data. An Excel export creates a spreadsheet with a worksheet for each query with data. A CSV export creates a folder with text files for each query with data.

Cechifo Tools Database, Geo-Information Solutions, www.GeoldfoSci.com	
Home Create External Data Database Tools	
📴 Geolarfo Teols v3.0b32 🔄 All Log: 69 Logs for Project SanJose	×
Geo-Information Solutions Active Project: SanJose	•
Current Backend Database: C:Data\GeoInfoDatabase\Testing_GeoInfoTools_Backend_GeoInformationSolutions.mdb	Re-link
Database Tools Reports Surface Dispatch Drill Dispatch QAQC Tools Drill Assay Settings Best Analysis Composites/Equivalents Import/Export Replication Set	tings
Query Export Tools Other Import/Export/Link Tools	
Export Format:  * Access database with multiple tables, a single Excel spreadsheet with multiple worksheets, or multiple CSV text files. Graphic Drill Hole Software Export	Log
Data to Export - Select One	
Active Project active Project active	3500
Prospect:	
Area:	
Drill Hole/Trench:	Data
Query:	
* Queries, qr/XXX*, where XXX is project code, are exported in the selected format. Export can be for the entire active project, a prospect, area, drill hole/trench or just one specific query for the active project. Export	

\*Note: Sometimes you receive errors related to specific queries (commonly Density and Geotech) where some values were not exported. This is due to division by zero errors in your data. This is a clue to find and fix errors.

The Log Plot export tool will export a drill hole to text files for import into Rock Ware's Log Plot software for creating graphical logs. This tool creates a directory for the selected drill hole (in the current database directory) and then exports all the data for that hole into text files that are ready for import into Log Plot.

An acQuire database synchronization tool is only partially complete.

A Ground Truth Soil Data Importer is a custom importer designed for Ground Truth soil sample collection data.

### Replication

The SQL Server backend version of GeoInfo Tools database can be setup for internet replication which allows multiple users to work on the database in a disconnected local environment and periodically synchronize their databases over the internet to share data with others. Database replication can synchronize a project site database with a corporate office database and vice-versa.

Replication requires specialized setup in the backend database. If a backend database is set up for replication, this tool is used to internet synchronize your local database to another database on an internet server.

	<b>はっ・で・望× 芯 </b> (学+)冊・  北  計 ( <b>ぬ</b> ) =	GeoInfo Tools Database, Geo-Info	rmation Solutions, www.GeoInfoSol.c	com	- 6	× t			
-	Home Create External Data Database Tools					0			
Ge Ge	oInfo Tools v3.2b15								
н	GeoInfo Tools Database by Geo-Information S	iolutions Company: Geo-In	nformation Solutions	Active Project: SanJose		~			
	Current Backend Database: SERVER=GEOINFOSB\GEOINFOSB DAT	TABASE=GeoInfoTools_GeoInform	nationSolutions		Re-link				
Data	base Tools Reports Surface Dispatch Drill Dispatch QA	QC Tools Drill Assay Settin	igs Best Analysis Composi	ites/Equivalents Import/Export Repl	lication Settings				
Dat	abase Replication Please read notes below befo	re completing	Replicación de base	de datos Por favor lea notas	abajo				
By s you	electing a replication database (Access backend) or server will start replication with your current backend and the sel N connection is required before starting the replication or	(SQL Server backend) belo ected database.	<ul> <li>Seleccionando una rep Server backend) abajo seleccionada.</li> </ul>	licación de base de datos (acceso bac comenzará replicación con su back-e	ckend) o servidor (SQ end actual y la base de	datos			
VPN	to Auto Connect/Disconnect below.	it will fail. Tou call set the	Es necesaria una conexión VPN antes de iniciar la replicación o fallará. Puede configurar la VPN para conexión/desconexión automática a continuación.						
Repl but proc	ication can take a significant amount of time to complete ( up to 1-2 hours with some connections and data changes) ess it is best if you do not use the database or computer (	(normally 1 to 20 minutes, , and while replication is in intil it is finished.	La replicación puede tomar una cantidad significativa de tiempo para completar (normalmente 1 a 20 minutos, pero con algunos cambios de conexiones y datos hasta 1- 2 horas), y mientras en proceso de replicación es mejor si no utiliza la base de datos o el ordenador hasta que termine.						
Sele Serv	ct a Database (Access backend, like \\192.168.177.10 er backend, like GEOSERVER\GEOSERVER2014) for Syn	0\GIS_GeoInfoToolsDatab nchronization	ase\Replica_GeoInfoTools_	_Backend_GeoInformationSolutions	.mdb) or a Server (S	QL			
						~			
Ema	il Notification List (VT_RPL_EmailList)	Auto Connect/Disconne	oct VPN2 (VPN connection n	nuct be setup in Windows first)					
Mike	.Schaefer@GeoInfoSol.com	VPN Connection Name	Coo Information Solution						
		ven connection name.	Geo-Information Solution	s Geoserver					
		VPN Username:	Міке						
		VPN Password:	*****						
Form Vie	w					<b></b>			

A reasonable internet connection and a VPN connection to the host database server are required before starting the replication or it will fail.

You can check the Auto Connect/Disconnect VPN option and enter the VPN Connection Name (exact Windows name), Username and Password. The VPN connection needs to be setup in Windows before using this option.

Clicking on the pick list of available databases and selecting one from the list starts the synchronization. While running the following form is displayed;



Replication normally takes 2-5 minutes to complete, however it could take longer with some slow internet connections and large data changes. While replication is in process it is best if you do not use the database or computer.

Replication Email notifications are emailed to recipients in the VT\_RPL\_EmailList validation table. It is best to include all persons synchronizing to the email list so they are aware that someone has synchronized so they can then sync to get any new data.

When the synchronization is complete and the Emails sent out, a synchronization complete message will be displayed. Click **OK**.

\* Synchronizing can cause conflicts if two users edit the same data while disconnected so it is always best if you sync before you edit/add data (so you can get all available edits before you start) and just after you edit/add data (so others can get your edits before they edit/add data).

### **Settings**

GeoInfo Tools Settings are set on the Settings tab, including;

- Sample numbering either same series for all sample types or different series for each sample type.
- Form Datasheet, Query and Table font size.
- GPS Settings.
- Picture Path Settings. This sets up hyperlinks in your queries to your photos.

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Home Create Estematulata Database Tools  Geoleta T	×
GeoInfo Tools Database         by Geo-Information Solutions         Company:         Geo-Information Solutions         Active Project:         SanJose           Current Backend Database:         C:\Data(GeoInfoTools, Backend GeoInfoTools, Backend GeoInfoTmetionSolutions.mdb         Re         Re	▼ link
Database Tools Reports Surface Dispatch Drill Dispatch QAQC Tools Drill Assay Settings Best Analysis Composites/Equivalents Import/Export Replication Settings	
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Subfolders by Drill Hole/Trench Example: H:\UnitedStates\Arizona\_Projects\SanJose\Administration&Documents\Photos\DrillCore	
Form.View	Num Lock Scroll Lock

## Appendix A – ODBC Database Linking Setup

**ODBC** (**Open Database Connectivity**) is used to connect Simple GIS, ArcGIS, MapInfo, Log Plot, Excel, mine modeling software, statistical software and almost any other software directly to the GeoInfo Tools database queries. ODBC provides a direct link to the database, and it is preferred to use an ODBC connection rather than repeatedly exporting and importing data into other software for analysis and presentation.

ODBC is a standard interface for accessing database management systems (DBMS). An application can use ODBC to query data from a database. ODBC uses an *ODBC driver* as a translation layer between the application and the database. The application uses ODBC functions through an *ODBC driver manager* with which it is linked, and the driver passes the query to the database.

To setup a Windows ODBC driver to the GeoInfo Tools Database;

- Windows 32 bit Operating System (uncommon);
  - 1. Click the Windows Start menu, Control Panel, Administrative Tools, and **Data Sources (ODBC)**.
  - 2. Select the **System DSN** tab, and then click **Add**.
  - 3. Locate the *Microsoft Access Driver (\*.mdb, \*accdb)* in the driver list and click **Finish**
  - 4. Type *GeoInfoTools\_Application*, the exact name of the GeoInfo Tools front end database (without the extension), in the *Data Source Name* field. A description is not required.
  - 5. Click **Select** to locate the *GeoInfoTools\_Application.accdb* front end database on your computer.
  - 6. Click **OK** to close the setup form and **OK** again to close the ODBC Data Source Administrator form.

#### • Windows 64 bit Operating System (common);

- In Windows Search type ODBC, select ODBC Data Sources (32bit). In old pre-Windows 10 systems, In Windows File Explorer locate and open (double click) the C:\Windows\SysWOW64\odbcad32.exe file.
- 2. Select the System DSN tab, and then click Add.
- 3. Locate the *Microsoft Access Driver (\*.mdb, \*accdb)* in the driver list and click **Finish**

4. Type *GeoInfoTools\_Application*, the exact name of the GeoInfo Tools front end database (without the extension), in the *Data Source Name* field. A description is not required.

ODBC Microsoft Access Setup	? ×
Data Source Name: GeoInfoTools_Application	OK
Description:	Cancel
Database: C:\\GeoInfoTools_Application.accdb	Help
Select Create Repair Compact	Advanced
System Database	
None	
O Database:	
System Database	Options>>

- 5. Click **Select** to locate the *C:\GeoInfoTools\GeoInfoTools\_Application.accdb* front end database on your computer.
- 6. Click **Advanced** and enter any value in the Default Authentication **Login Name** and **Password** fields. GeoInfo Tools does not require ODBC authentication, however entering any values for these makes sure users are not prompted to enter them every time a data link is created.

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7. Click **OK** to close the setup form and **OK** again to close the ODBC Data Source Administrator form.

## **Appendix B – ArcGIS OLE DB Connection Setup**

ArcGIS links directly to the GeoInfo Tools database using an OLE DB connection to an ODBC driver. After setting up an ODBC driver as described in <u>Appendix A</u> you can then setup an ArcGIS OLE DB connection.

- 1. Open ArcCatalog
- 2. In the ArcCatalog browser section on the left locate the *Database Connections* folder and expand it. Double click **Add OLE DB Connection** option.
- 3. In the *Provider* tab select *Microsoft OLE DB Provider for ODBC Drivers*, and then click **Next**.
- 4. In the *Connection* tab select the *GeoInfoTools\_Application* ODBC driver from the *Use data source name* dropdown list.
- 5. Click **Test Connection** button and upon receiving the Test connection succeeded message click **OK**.
- 6. Click **OK** in the *Data Link Properties* form to finish setting up the OLE DB connection.

**\*NOTE**: ArcGIS no longer has the **Add OLE DB Connection** option exposed in the menu of ArcCatalog. To expose this tool;

- Customize Toolbars Customize Commands Tab.
- Type OLE in Search command containing:

Customize	•					Х
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ArcCatalo Coverage Data Mai Spatial A	og a Tools nagement Tool nalyst Tools	s	3	Add OLE DB Conne Create and Manage	ection e Roles Description	
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- Grab, drag and drop the Add OLE DB Connection icon to one of the tool bars.
- Click this new menu tool icon to Add OLE DB Connection.

## Appendix C – ArcGIS Make Query Table Tool

There is a limitation in ArcGIS when linking to database tables by just opening them directly from the database ODBC driver... selections do not work. The reason for the selection limitation in ArcGIS with linked database tables is the database tables do not have OID or Object-ID fields which are required for some advanced features of ArcGIS, like selections.

If you link to the database using the Make Query Table tool, in ArcToolbox, you have the option to create an Object-ID field so you can have full functionality in ArcGIS with linked database tables.

Below are instructions for opening GeoInfo Tools database queries using the ArcGIS Make Query Table tool;

- Open ArcToolbox in ArcMap
- Double click the **Make Query Table** tool to open the dialog box. The tool is located in *Data Management Tools\Layers and Table Views*.
- In the **Input Tables** field click the Open File Icon. Navigate to Database Connections then select your database OLE DB connection. Then find the database query that you want to open.
- In the fields list **Select All** or just the fields your want. See the bug note below for pre v9.3 AcrGIS.
- An **Expression** is an option; this will give you a subset of the database data. Generally we leave this blank and use a Definition Query in ArcGIS instead.
- Type the same name as the database query in the **Table Name** field; this lets you know the data is from the database. When we see qry\* in any layer name we know it is a linked table to a database. ArcGIS does not let you use the same exact name as the input database query name so add an underscore to the name. If you use an expression to limit records then describe that filter after the underscore. For example *qryNPCHEMSoil\_* for all the soil data or *qryNPCHEMSoil\_MSchaefer* for soils collected by MSchaefer.
- The **Key Fields Options** field is where we define an Object-ID field for the database query. Select USE\_KEY\_FIELDS (or Virtual if you do not know the unique primary key for the data).
- In **Key Fields** check the *SampleNum, ObservID, HoleID* field or any field or combination of fields that define the primary key for a table (a unique value for each record).
- Click OK to run.
- This step is not required in all ArcGIS versions and the query might be automatically loaded; Once run go the Results tab of ArcToolbox, find your Make Table Query session and expand the list. Find the query you just loaded and right click and select Add To Display. Close ArcToolbox.

- Now the table is loaded in the Sources tab of ArcMap. Right click on the newly added table and click **Display XY Data**. Select the correct X and Y coordinate fields and projection and create the mapped points.
- Set your symbology and then save a layer file of your final mapped query so you do not have to recreate these steps every time you want to map this data.

\*BUG in ArcGIS v9.2 (fixed in 9.3 and beyond). If you select all the fields to display and run the tool, a bug causes each field to be duplicated. The work around is to select all the fields and then unselect just one field, doing this gets rid of the duplication bug issue in ArcGIS.

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# Appendix D – Plotting Log Intervals in ArcGIS

There are two tools to get your trench data (or projected to surface drill holes) to display in ArcGIS;

- 1. Run the GeoInfo Tools <u>Create Hole / Trench 3D Coordinates</u> tool to create 3D coordinates for all your logged interval data.
- 2. An Arc Toolbox tool (download here), GeoInfo Tools ArcGISv10.tbx (ArcGIS v9.2 and v9.3 tools are also available), reads GeoInfo Tools database drill hole queries with 3D Coordinate pairs, X\_From, Y\_From, Z\_From, X\_To, Y\_To, Z\_To and creates a polyline Shapefile with attributes for analysis and display. You can then use this Shapefile to color a trench or projected to surface a drill hole trace based on any of the database attribute values like , Au, Cu, lithology, alteration, recovery, structure, minerals, etc...
  - a. To load the tool. Open ArcGIS, then ArcToolbox, right click on the top icon in the toolbox name ArcToolbox, click Add Toolbox, and select the toolbox (*GeoInfo Tools ArcGISvXX.tbx*) that matches the version of ArcGIS you are using.
  - b. To run the tool. Expand the GeoInfo Tools Toolbox in the ArcToolbox tree. Double Click on the *Create Line Segments from qryXXXDH\* Queries* tool to open the tool. Enter the 5 required fields to run the tool;
    - i. Database query. Click the select file icon to the right and navigate to your Database Connection for GeoInfo Tools. Select the qryXXXDH\* query you want to use to create a polyline Shapefile.
    - ii. Output Shapefile. Click the select file icon to the right and navigate to the location where you want to save the Shapefile and give it a name, preferably, *qryXXXDHXXXXX\_LineTrace* or *Polylines*, but keep the *qryXXXDHXXXXXX* prefix so you know that this data comes from the database.
    - iii. Unique ID field. Select either ID or SampleNo depending on the query you are working with. Note you can NOT use SampleNumber as ArcGIS crops field names to 8 characters in the process and the join back to the original attributes will fail.
    - iv. Spatial Reference. Select the projection and datum from the ArcGIS list.
    - v. Temp Shapefile. This is a temporary Shapefile needed in the process, it will be automatically deleted if the process completes without error.

# Appendix E – Core View Graphic Log Software

Core View is a free software that creates graphic logs from GeoInfo Tools drill hole queries, <u>http://www.visidata.com.au/HTML/CoreView.html</u>. Core View links to GeoInfo Tools directly through an ODBC driver (the same one setup for ArcGIS or other software).

In Core View you link to GeoInfo Tools queries and then create graphic log templates based on the data in these queries. You can create any number of different graphic logs. Once a log is created any number of holes can be viewed graphically. These logs can then be printed or printed to a PDF.

Core View is a little buggy but once you get a log built and understand its quirks, it creates some great looking graphic logs!



## Appendix F – MapInfo Database Linking

Read the MapInfo User Manual to understand the MapInfo DBMS tool principles. A brief explanation follows;

- 1. MapInfo needs to manage mappable tables in a specific look up table format in the database, called the MapInfo Catalog, GeoInfo Tools already has this table ready for MapInfo.
- The first thing you do is connect to the database, File-Open DBMS Connection. Connect to an ODBC driver (set up explained in <u>Appendix A</u>)
- 3. Make the MapInfo DBMS Toolbar visible.
- 4. The 4<sup>th</sup> icon on the DBMS Toolbar is Make DBMS Table Mappable. You do this only once for each query in the database that you want to map. This writes a record in the MapInfo Catalog in the GeoInfo Tools Database. Once the record is written in the MapInfo Catalog it will not show up in the list anymore since it need be completed only once. When making a query/table mappable use the following settings;
  - a. Index Type = XY Coordinates
  - b. X Coordinate = Long\_Dec or Easting
  - c. Y Coordinate = Lat\_Dec or Northing
  - d. Uncheck Per Row Style
  - e. Select a symbol and color
  - f. Set the projection!
  - g. Some versions of MapInfo return an error at the end "Unable to download only the OBJECT from an DBMS table ......" then another error "The table you have chosen cannot be made mappable ....." but the table is still made mappable and you can ignore it.
- 5. You can now open the query that has been made mappable. File-Open and change Files of Type from *MapInfo (\*.tab)* to the name of your ODBC database driver *GeoInfo Tools Application*. Select the query that you have made mappable and you should now see your data loaded in a map window as objects. If you open a query that has not been made mappable you will see the table open rather than map objects. Use the default Downloaded Data option as MapInfo is slow using Live Access. You can use Column and Row filters as desired but if you do a Column filter make sure to select the OBJECT at the bottom of the list or you will only get a table.
- 6. Since we link via Downloaded Data you need to use the **Refresh DBMS Table** tool to automatically re-query the database if new data is available.
- 7. The **Unlink DBMS Table** tool breaks the link from the Downloaded Data to the database and thus you are then left with the equivalent of a normal Tab file and no way to re-query the database for new data. We don't do this often.

#### Appendix G – Simple GIS Open Database Event Layer

Simple GIS is a good GIS software that works well with GeoInfo Tools, <u>https://www.simplegissoftware.com/home.html</u>. Simple GIS also provides great GIS\GPS functionality on tablets for field work.

An ODBC data source, as specified in Appendix A, is required to open GeoInfo Tools queries as Event layers in Simple GIS.

Click the Add Data to View icon, then the Event Layer tab. Enter a name, I suggest using the same name as the GeoInfo Tools query so it's easy to know the data source, then click Add Layer.

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• Click OLE DB radio button, then Build.

• Select Microsoft OLE DB Provider for ODBC Drivers, then Next.

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Microsoft Office 12.0 Access Database Engine OLE DB Pro	
Microsoft OLE DB Provider for Analysis Services 12.0	
Microsoft OLE DB Provider For Data Mining Services	
Microsoft OLE DB Provider for OLAP Services 8.0	
Microsoft OLE DB Provider for Oracle	
Microsoft OLE DB Provider for Search	
Microsoft OLE DB Provider for SQL Server	11
Microsoft OLE DB Simple Provider	
MSDataShape	
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• Select **Use data source name** as the ODBC data source set up for GeoInfo Tools, then **OK**.

Data Link Properties	×
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GeoInfoTools_Application	
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Password:	
Blank password Allow saving password	
3. Enter the initial catalog to use:	
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OK Cancel	Help

×

• Select WGS84 as the Projection, the query you want to open, SampleNum as the Unique ID field (ObservationID for observations and HoleID for drill hole collars), Long\_Dec as the X field, and Lat\_Dec as the Y field; then click **OK**.

Event Theme S	ource Setup			×
-Database				
🔿 Dbase	C:\Program Files	(x86)\Simple GIS		Select
				Pasta Data
💿 Ole DB	Provider=MSDASI	QL.1;Persist Security Info=F	alse;Data Source=GeoInfoTools_	A Build
				Existing
Select Project	ion For Layer: 🛛 🔯	/GS 84	<b>*</b>	
	-			
Select Tab	ole/Query	—Set Up Event Layer Field	ls	
gryALL_Sample:	sWithout	Unique ID Field	V Field Name	⊻ Field Name
arvALL_Styles	DSample	DataType	SampleNum	SampleNum
gryALLCHEM_S	amplesB =	SampleNum *	Long Dec	Long_Dec
	amplesP	Project =	Elevation	Elevation
gryALLCHEMPa	anCon	SampleNoOld SampleTupe	Easting	Easting
	aut ock	Sampler	R_SampleWidth	R_SampleWidth
gryALLCHEMSo	oil Al Connel	Country	R_StructureAzm	R_StructureAzm
	Sed -	Company	n_structureDip	n_ollucluleDip
qryALLCHEMVe	eg 📃	Prospect		
	ОК			X Cancel