Environmental & Water Resources Software Catalog

2010
Welcome to the latest edition of the Scientific Software Group catalog! Established in 1984, SSG continues to provide the most advanced and comprehensive software solutions available for groundwater, environmental and water resource modeling. The SSG software has long been the choice of government agencies, universities, and consulting firms around the world for the most complete of environmental modeling software.

Enjoy looking through this 2010 version. We are glad to have you back.

Scientific Software Group

Customer Service and Support

Our goal at SSG is to provide our customers value. We provide top quality software at low prices. More importantly, we have a friendly, knowledgeable staff to help you find and get what you need. Our promise is to provide:

- A live person answering the phone – Toll Free 866 620-9214
- FREE SHIPPING on software in the US and Canada (UPS/FedEx Ground)
- Technical support as provided by the developers
- Educational, Government and Multi-License Discounts on most products
- 30-Day, no hassle, money back guarantee
- Low price Guarantee

Customer Satisfaction is our #1 Goal!

Welcome to the #1 Source for Environmental & Water Resources Software!

All products include technical support and our 30-day Money Back Guarantee!

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(Product Finder)

(Prices subject to change without notice)

Software Total (USD): _____________________

Shipping Method (please indicate preferred method)

- UPS/FedEx Ground Delivery - FREE (4-8 day delivery to USA and Canada)
- FedEx 2-day - $20 (USD)
- FedEx Overnight (USA) - $40 (USD)
- FedEx International Priority - $50 (USD)

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Grand Total (USD): _____________________

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- Purchase Order: # ______________________________ is attached
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All products include technical support and our 30-day Money Back Guarantee!The #1 Source for Environmental & Water Resources Software!
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**More Products**

Many other products and more information can be found on our website. Please visit!

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**Features**

- **Arc Hydro Groundwater (AHGW) Tools:** Groundwater Analyst, MODFLOW Analyst, Subsurface Analyst
- **Expand the capabilities of your ArcGIS software with groundwater and subsurface geoprocessing tools developed in collaboration with ESRI**
- **Access and visualize groundwater, time series, and geologic data within ArcGIS**
- **Georeference subsurface data including boreholes, rasters, sketched cross sections, and geovolumes**
- **Reduce the need for multiple applications by visualizing groundwater model data directly inside of ArcGIS**
- **Store, georeference, and create GIS maps of MODFLOW model input and solution data**
- **Import GMS borehole & stratigraphy data for 3D display in ArcScene**

**Subsurface Analyst**

Create & Edit Cross Sections
- **Interactive cross section editing of borehole data**
- **Include water table & saltwater interface and other geologic map data**
- **2D Cross Sections can be converted to 3D Geosections and viewed in ArcScene. 3D Geosections can also be converted to 2D Cross Sections to edit and view in ArcMap**

Generate 3D Geovolumes
- **Build 3D GeoVolumes from your subsurface data and visualize the new GeoVolume features in ArcScene**

Classify, Visualize & Edit Borehole Data
- **Visualize, classify, and edit borehole data such as stratigraphy, screens, and casing interval**

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**Groundwater Analyst**

Manage Well Data
- **Use text import wizard**
- **Create maps to visualize well data using raster data sets**
- **Display flow vectors from flow direction generator**
- **Create water level and water quality maps**

Perform Time Series Statistics
- **Show average readings**
- **Show readings from a range of time**
- **Query time series data to generate maps**
- **Use the built-in spatial analyst tools to create raster images**

**MODFLOW Analyst**

Manage MODFLOW models within ArcGIS
- **Import existing MODFLOW models and store them in the MODFLOW model structure**
- **Export & Run MODFLOW models within ArcGIS**
- **Map GIS attributes to MODFLOW models**
- **Well permitting tool**
- **Customized workflows for MODFLOW applications**

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**Pricing**

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*Free to all licensed ArcGIS users with an ArcMap level license.
The Groundwater Modeling System (GMS) is a comprehensive groundwater modeling environment! Used by thousands of people at U.S. Government agencies, private firms, and universities, it is a proven and effective modeling tool. GMS provides tools for every phase of a groundwater simulation including site characterization, model development, calibration, post-processing, and visualization.

GMS supports both finite-difference and finite-element models in 2D and 3D including MODFLOW, MODPATH, MT3DMS/RT3D, SEAM3D, FEMWATER, PEST, MODAEM, SEEP2D, and UTEXAS.

Model Building Features

- Use GIS objects and associated data to conceptualize your modeling problem - then let GMS generate a grid/mesh and assign appropriate conditions.
- GIS Module allows direct linkage to ArcGIS 8.x or higher.
- Use TIFF, JPEG, or MrSID images to guide on-screen digitizing and to enhance presentation.
- Multi-panel borehole cross section editor to generate complex 3D stratigraphy models - for presentation of site data or as a basis for model building.
- Support for SAWG multidrill solver for MODFLOW.
- The "horizons" approach allows you to create complex stratigraphy and assign it to a MODFLOW grid (using the HUF package) or a FEMWATER mesh.
- Control mesh/grid density and type by assigning properties to simple GIS objects.
- Import DXF and DWG files from CAD to create model objects or to enhance presentations.

Model Visualization Features

- Display model properties and simulation results with vector plots, contour plots, color-shaded contour plots.
- Use CAD, Image, or GIS data for background maps.
- Render high resolution 3D model plots with shading and contouring.
- Interpolate any data set to a grid or mesh for visualization of parameters.
- Animate model solutions, transient data, or rotating models - save to AVI files for presentation.
- Export files for visualization in Google Earth.

Advanced Calibration and Stochastic Modeling

Automated calibration and stochastic modeling methods allow you to calibrate your model and perform risk assessment faster than ever before. PEST and T-PROGS methods are fully integrated with GMS.

Supported Models

- 2D Flow Modeling MODAEM - fast analytical element modeling of flow fields using sources/sinks and boundary conditions
- SEEP2D - Finite-element seepage analysis perfect for dams, levees, cutoff trenches, etc.
- UTEXAS
- Comprehensive slope stability model to calculate critical failure surface and factor of safety. Use with SEEP2D for dam and levee analysis.
- 3D Flow Modeling MODFLOW 2000 - the industry standard for finite difference flow modeling (saturated zone)
- FEMWATER - finite-element flow modeling (unsaturated and saturated zones, salinity intrusion)
- Solute Transport Modeling MODPATH, MT3DMS, FEMWATER - particle tracking and solute transport modeling
- RT3D, SEAM3D - advanced reactive transport modeling
- Unsaturated Zone Flow & Transport Modeling FEMWATER - fully 3D unsaturated/saturated flow and transport modeling.

Pressure/Temperature Smart Sensors with Data Logging

The AquiStar® PT2X submersible smart sensor represents the latest in state-of-the-art level measurement technology. Building on years of successful experience, this industry standard digital RTD85 interface device offers improved noise immunity, thermal performance and transient protection. In addition, this device stores over 130,000 records of pressure, temperature and time data, and operates with low power. The PT2X comes with INW's easy-to-use Aqua4Plus software!

Aqua4Palm is an easy-to-use Palm™ based control software for the PT2X Smart Sensor. Leave your expensive laptop in the office - just slip a Palm™ in your pocket!

The AquiStar® PT2X-BV is designed to measure barometric and vacuum pressure relative to absolute pressure, along with temperature and time.

Wireless Data Collection System

WaveData™ Wireless® Data Collection systems combine patented AquiStar® Smart Sensors and MaxStream® wireless modems, to create powerful systems for remote data collection and real time monitoring. Available with solar panels and rechargeable batteries for long-term use in remote areas. Operating on the 900 kHz or 2.4 GHz radio bands, these radio frequency modems are license free. Communication range varies from 300 feet to 5 miles, depending on line-of-sight obstructions, height and type of antennas, and additional repeaters.

Pressure and Environmental Sensors

The Tempion T-3 is a submersible water quality sensor that provides accurate and stable water quality measurements. All sensors come equipped with temperature, one interchangeable specific ion electrode (bromide or chloride), and either a pH or redox module. Its signal conditioning provides two amplified mV outputs and one thermistor output. Easy factory recalibration and servicing.

The P5-9 Series submersible pressure and level sensors represent the latest in state-of-the-art measurement technology. Building on years of successful experience, INW offers sensors with 4-20 mA, 0-5 V, and mV outputs to connect to your meter, data logger or control device.

Pumping & Sampling System

The REEL E-Z is a compact system designed to provide a convenient way to store and operate the Grundfos® Redi-Flo® pump. When used with INW's HAPPY HOSE® (cable, tubing and safety cable bonded together) the system easily installs the pump in the well, locks it in place and allows for easy take up and cleaning without cable entanglement. The REEL E-Z is also available with HAPPY CABLE! (combination electrical conductors and safety cable) for customers who want to use the system with various types of tubing. The REEL E-Z system is ideal for one person sampling and purging applications.

Wireless Data Collection System

The Mini REEL E-Z Water Level Meter has been ranked #1 for accuracy, durability and ease of use since 1995. The tapes meet or exceed federal specification US GGG-T-106E (U.S.A.) or EEC CLASS II (Europe) for a guaranteed accuracy of .008%. A flat spring steel core ensures tapes hang perfectly straight in large and small diameter wells. This provides unparalleled accuracy when compared to the flat white tapes, where kinks in the tape introduce slight errors, in addition to the displacement of water changing the static level.

The Mini REEL E-Z Oil/Water Interface Meter measures the depth and thickness of floating (LNAPLs), sinking (DNAPLs) hydrocarbons and water in monitoring wells as small as 1/2” ID (13.5 MM) using an optical sensor for industry accuracy. Interface meters are available with 50-2000 foot tapes with probe sizes not available from any other manufacturer. All probes are pressure proof and leak proof using a unique triple-seal design.

Please call or visit our website for equipment pricing and options.

Pricing

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Please contact us or visit our website for details.
The RIVERMorph® software is a database oriented software system geared towards channel measurement data collection/storage, reference reach data collection/storage, river assessment/monitoring and engineering applications including natural channel design. As the field of river restoration is ever changing, it is the goal that the development of RIVERMorph® will be flexible enough to meet future needs.

**Features**
- State-of-the-art graphical user interface that is user-friendly and allows quick access to stored data
- Cross section analysis
- Profile analysis
- Channel material analysis
- Rosgen stream classification
- Flank channel stability assessment
- Natural channel design calculations
- Regional curves
- Curve creation and manipulation
- Gauge analysis
- Resistance and regime equations
- Sediment transport calculations including the PowerSed Sediment Transport Model

**Applications**
- Lake circulation
- Tidal flow in estuaries and coastal areas
- Sediment transport
- Heat transport from nuclear power plants
- Flow in tidal inlets (navigation problems)
- Location of wastewater outlets (bacterial decay)
- Flow through narrow openings (bridges)

**Pricing**
- **Standard GV** $1245
- **Advanced GV** $1945
- **Enterprise GV** $2395

**AQUASEA for Windows software is a powerful and easy to use finite element program to solve flow in rivers, tidal flow problems in estuaries and coastal areas, lake circulation and problems involving transport of mass heat and suspended sediments.**

- The flow model can simulate water level variations and flows in response to various forcing functions in lakes, estuaries, bays and coastal areas
- The transport dispersion model simulates the spreading of a substance by fluid flow and dispersion processes
- Pollutants supported: conservative or non-conservative, inorganic or organic, salt, heat, suspended sediment, dissolved oxygen, inorganic phosphorus, nitrogen
- Variable depth, bottom friction, wind speed, wind direction, dispersion coefficients and mixing depth
- Multiple wetting and drying cycles supported
- Real time varying data can be entered from actual observed records. Time varying wind and tidal boundary conditions as well as time varying sources accepted
- Model boundaries can be expanded or contracted and nodes added or removed. Submodels can be created easily within any part of the original model

**3D Groundwater Modeling for Windows!**

Groundwater Vistas (GV) is a unique groundwater modeling environment for Microsoft Windows that couples a powerful model design system with comprehensive graphical analysis tools. GV provides more functionality at a lower cost than any competing product!

**Key Features**
- Import & Export data using a variety of file formats including shapefiles, DXF, Surfer, spreadsheets, text
- Calibration tools including PEST-ASP, MODAC, UCODE, MODFLOW2000, Automated Sensitivity Analysis
- Uncertainty Analysis tools including Monte Carlo versions of MODFLOW, MODPATH, & MT3DMS and PEST Uncertainty Analyzer
- Optimization tools including MGO, SOMOS, MODOFC, and Brute Force
- Telescopic Mesh Refinement (TMR) for creating refined submodels
- 3D Visualization interfaces to EVS, EarthVision, Tecplot, ModelViewer, 3D Master, & IBM OpenDX
- Support of all versions of MODFLOW, MODPATH, and MT3D
- Remote Model Launch™ (purchased separately) runs models over a network
- Free Viewer Version - Let your client see your model!
- Advanced Technical Support: We support our software and help with technical and conceptual issues as well

**What’s New**
- Import existing MODFLOW 2000 datasets for the SFR1, SFR2, HUF, ETS, DRT, and LAK3 packages
- New Layout for creating custom report forms
- New Model Reports for calibration, mass balance, dry cell locations, etc.
- Caching and disk data storage to allow for large transient runs
- Custom contours for each data type
- Enhanced boundary condition editing
- GSM and VM import with no editing
- Unsaturated Zone Flow (UZF) Package support
- New Analytic Elements and selection options
- Many More!

**Groundwater Vistas (GV) is a unique groundwater modeling environment for Microsoft Windows that couples a powerful model design system with comprehensive graphical analysis tools. GV provides more functionality at a lower cost than any competing product!**

**Pricing**
- **GV** $1795
- **Pocket GV** $495
- **GV in a box** $2445
- **GV Commercial License** $3490
- **GV Commercial License incl. 1 year of support & updates** $3940
- **GV Government License incl. 1 year of support & updates** $3490
- **GV Academic License incl. 1 year of support & updates** $3490

**3D Visualization interfaces to EVS, EarthVision, Tecplot, ModelViewer, 3D Master, & IBM OpenDX**

**Graphical Features**
- Displays both plan & cross-sectional views
- Shows full color contour maps of elevation, groundwater head, contaminant concentrations, etc.
- Plots capture zones and pathlines
- Displays any digital map as a background image
- Export results to SURFER, Slicer, DXF, BMP, WMF, Earth Vision, Evans, Tecplot, ArcView and ASCII files
- New GW3D - a 3D visualization tool now available for 3D plotting and animation

**Models Supported**
Groundwater Vistas is a model-independent graphical design system for:
- MODFLOW 2000/2005
- MODPATH (steady-state or transient)
- MT3DMS
- SEAWAT
- PEST
- UCODE
- MODFLOW*
- MODFLOW-SURFACT* (see pg 9)
- SWIFT*
- MT3D*99*
- PATH4*

* model must be purchased separately

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- Many More!
Visual MODFLOW’s three-dimensional groundwater flow and contaminant transport modeling capabilities are trusted and used by more groundwater professionals than any other modeling software in the world thanks to several seamlessly integrated numeric engines with an easy-to-use graphical interface.

### Professional Applications
- Predict impacts from saltwater intrusion from over pumping in coastal regions
- Delineate well capture zones for municipal drinking water supplies
- Design and optimize pumping well locations for dewatering projects
- Evaluate groundwater remediation systems (pump & treat, funnel & gate, etc.)
- Simulate natural attenuation of contaminated groundwater
- Estimate the reductive dechlorination of TCE, PCE and DCE in groundwater
- Determine contaminant fate and exposure pathways for risk assessment

### Advanced Simulation Capabilities
- MODFLOW-2000, the world standard for groundwater flow simulations
- MODFLOW-SURFACT*, a robust flow model that extends the physical modeling capabilities of MODFLOW to include flow through the vadose zone
- MODPATH, for forward and reverse particle tracking
- MGO, for optimizing pumping well and injection well rates
- Stream Routing Package for surface water/groundwater interactions
- RT3D, for reactive transport simulations
- MT3DMS, for multi-species transport simulations
- MT3D99*, for complex, reactive transport simulations
- Advanced Predictive Analysis using PEST-ASP
- Zone Budget for sub-regional water budget calculations
- SEAWAT, for variable-density flow analysis

### Model Design & Graphical Features
- Interactive display of plan, cross sectional, and 3D views
- Import (DXF), (BMP), (SHP), (GIF), (JPB), (PNG) for your site base maps
- Import MODFLOW-2000, MODFLOW-96, and MODFLOW-88 data sets
- Mapping of Property Zones from Polygon ShapeFiles
- Interpolate layer elevation data from XYZ ASCII files (TXT), Access Database (MDB), Excel (XLS), and Point Shapefiles (SHP)
- Import layer surface elevations from ASCII (X,Y,Z) Surfer (GRD), USGS DEM (DEM), ESRI (GRD), MapInfo (.GRD)
- Import transient time schedules for boundary conditions/observation points
- Graphical grid design tools and automatic grid smoothing for improved model convergence
- Grid Cell Elevation Editor for on-the-fly modifications to cell elevations
- Render high resolution 3D volumetric plumes
- Animate sequential degradation of contaminant plumes
- Define 3D cut-away regions
- Create contour/color maps of model properties and simulation results

---

**Visual MODFLOW Pro**

- MODFLOW-2000, MODPATH, MGO, RT3D, Stream Routing, Zone Budget
- MODFLOW-SURFACT, SEAWAT, Gridded 3D Graphics, voxel rendering
- PEST-ASP, MT3DMS, RT3D, Stream Routing, Zone Budget
- MODPATH, MODFLOW, MGO, SEAWAT, voxel rendering

Abstracted: Didger

**Didger**

- New Revolutions in Map Making
- Discover the Ultimate Geoprocessing Toolbox!

**Strater**

A Powerful and Innovative Well Log and Borehole Plotting Program for Geoscientists

Strater is a well log and borehole plotting software program that imports your data from a multitude of sources (database files, data files, LAS files, ODBC, and OLE DB data sources). Strater provides innumerable ways to graphically display your data. All the logs are fully customizable to suit your needs. Design and save template and scheme files to make log creation efficient and consistent, create multi-page continuous logs, and quickly display new borehole logs. Utilize the header and footer panes to store information such as well number, driller, location, method, company name, and company logo.

**MAPViewer**

New Revolutions in Map Making

MapViewer is an affordable mapping and spatial analysis tool that allows you to produce publication-quality thematic maps easily. Small businesses, large corporations, independent consultants, scientists, GIS analysts, and numerous government agencies are discovering important trends in their data with MapViewer. Display your data distribution easily and precisely with more easy-to-use features than ever. Your data is unique and you need the best mapping software for the job.

**Voxler**

Adding a New Dimension to 3D Data Visualization

Voxler is the NEW way to visualize your 3D data. It imports data from a plethora of sources, and creates stunning graphics that let you creatively visualize the cryptic relationships in your data set.

Voxler combines a multitude of data sources into a brilliant display of data points, DEM height field surfaces, data isosurfaces, contour maps and oblique image slices at any angle, and much more!

---

**Pricing**

**Visual MODFLOW**

- **BASIC Flow Option**
  - Visual MODFLOW $1490
  - Visual MODFLOW Pro $3490
  - Visual MODFLOW Premium $4890

- **Add on PACKAGES:**
  - MT3D99 $690
  - MODFLOW-SURFACT $1885
  - 3D Builder $2290

**Strater**

- **Strater**
  - Multi-copy or bundle discounts available

**Didger**

- **Didger**
  - Multi-copy or bundle discounts available

**MAPViewer**

- **MAPViewer**
  - Multi-copy or bundle discounts available

**Voxler**

- **Voxler**
  - Multi-copy or bundle discounts available

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**Academic & Government Discounts Available!**

Toll Free: 866 620-9214 or 801 208-3011

www.scientificsoftwaregroup.com
Grapher is an easy to understand technical graphing package for anyone who needs to create publication-quality graphs quickly and easily. Grapher includes a full featured worksheet for importing, editing, creating, and saving data. It is also compatible with most all popular data storage formats and software packages.

**Features**
- 2D Linear Graphs - line plots, scatter plots, step plots, function plots
- 2D Bar Graphs - bar charts, floating bar charts, histograms
- 2D Polar Graphs - line/scatter plots, bar plots, function plots, rose diagrams, wind charts
- Specialty Graphs - high-low-close plots, pie charts, ternary diagrams, box-whisker plots, bubble plots
- 3D Aspect Graphs - ribbon/wall plots, step plots, function plots, bar charts, floating bar plots, histograms, pie charts
- 3D XYZ Graphs - line/scatter plots, bar charts, bubble charts
- Customize any portion of any graph to make the graph completely unique to your situation!

**Data Input Formats**
- Import DAT, TXT, SLK, XLS, WKx, WRx, CSV, BNA or BLN formats
- Calculate statistics and perform data transformations
- Sort and save data sheets

**Interpolating & Gridding**
Gridding options allow you to interpolate your data onto a user-specified grid to produce accurate maps and images from your XYZ data.
- Up to 1 billion XYZ data points can be used
- Cross-validate your data and judge suitability of particular interpolation methods
- Methods include Inverse Distance, Kriging, Minimum Curvature, Polynomial Regression, Triangulation, Nearest Neighbor, Shepard's Method, Radial Basis Functions, Natural Neighbor
- Generate reports of gridding statistics and parameters to help support your methodology

**Pricing**
- Grapher $325
  - Multi-copy or bundle discounts avail. with Grapher, Didger

**BP RISC**
BP RISC is used for performing fate and transport modeling and human health risk assessments for contaminated sites. A unique feature of BP RISC 4 is its ability to perform a backward risk calculation as well as the conventional forward risk calculation. The backward risk calculation in BP RISC 4 refers to calculating a cleanup level for an input value of risk. Fate and transport models are available in BP RISC 4 to estimate receptor point concentrations in groundwater and indoor and outdoor air.

**Features**
- A customizable chemical database with 82 chemicals
- An Excel spreadsheet based on the RBCA algorithms that can be used to replicate the tiered RBCA process
- The ability to determine risk-based TPH (total petroleum hydrocarbon) targets using the TPH fractions
- The ability to calculate additive risk due to multiple pathways, compounds and receptors
- A Monte Carlo capability for probabilistic risk evaluation
- Fate and transport models that distinguish between presence and absence of phase-separated product (NAPL) in the source zone

**What's New in Version 4?**
- Irrigation pathways, i.e. water used for gardening but not for indoor usage
- Vegetables grown in contaminated soil
- Two new vapor models, where the vapors are allowed to biodegrade during transport through the unsaturated zone
- Models for surface water and sediment contamination from impacted groundwater and direct comparison with relevant national standards for these media
- The use of groundwater MCLs (maximum concentration levels) and surface water concentrations in addition to acceptable risk levels as the criteria for back-calculating clean-up targets
- The ability to calculate a site-specific target level (SSTL) for a TPH mixture using the site-specific measured concentrations of the TPH fractions detected in the soil

**Pricing**
- BP RISC $695
  - Distributed discount available

**Surfer**
Surfer is a contouring and 3D surface mapping program that quickly and easily converts your data into outstanding contour, surface, wireframe, vector, image, shaded relief, and post maps.

**Visualization & Plotting**
Surfer gives you full control over all mapping parameters to produce dazzling displays of your data. Plot types include:
- Contour Maps
- 3D Surface Maps
- Vector Maps
- Image Maps
- Shaded Relief Maps
- Post Maps
- Base Maps
- Map Overlays
- 3D Wireframe Maps

**Data Input Formats**
Surfer includes a full featured worksheet for creating, editing, opening, and saving data files.
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**Selected Features**
- Acclaimed user support (multiple online discussion forums, FAQs, direct support)
- Available public libraries with hundreds of carried out examples
- 1D, 2D, 2D-axiymetrical, 3D-layered, and 3D-general (defined using planar and curved surfaces) geometries
- Unstructured and structured finite element grids
- Direct and iterative solvers
- Direct and inverse (e.g., parameter estimation, calibration) modes
- Includes Rosetta, a pedotransfer functions module for the prediction of the soil hydraulic properties based on easily measured textural characteristics
- Accompanied with a public domain HYDRUS-1D software package that is additionally coupled with the biogeochemical (PHREEQC) module

**Pricing**
- HYDRUS, 2D-Standard €1200 Euros
- HYDRUS, 3D-Standard €1800 Euros

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**HYDRUS (2D/3D)**
HYDRUS is a software package for the analysis of water flow and solute transport in variably saturated porous media. The program includes computational finite element models for simulating movement of water, heat, and multiple solutes in variably saturated media. The model is supported by an interactive graphics-based interface for data-preprocessing, generation of structured and unstructured finite element meshes, and graphic presentation of the results.

**Selected Features**
- Unstructured and saturated water flow (in uniform and dual-porosity systems)
- Linear & nonlinear, equilibrium & nonequilibrium solute transport (in the liquid and/or gas phase)
- Attachment/detachment model for simulating transport of colloid, viruses, or bacteria
- Heat Transport

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**Pricing**
- BP RISC $695
  - Distributed discount available
FEFLOW® is one of the most sophisticated groundwater modeling software packages available. The primary components of FEFLOW® ensure an efficient process for building the finite element mesh, assigning model properties and boundary conditions, running the simulation, and visualizing the results.

**Practical Applications**
- Modeling groundwater drawdown and recovery in mining regions
- Simulate the influence of reservoir construction on water table
- Study saltwater intrusion due to the coastal water supply pumping or mine dewatering
- Evaluate remediation and decontamination strategies
- Analyze contaminant transport associated with waste disposal and storage sites
- Assessment of availability of groundwater and geothermal resources
- Estimation and control of strategies for groundwater management
- Design of well-head protection zones
- Studies for environment impact assessment

**Model Visualization Features**
- Processing of background maps in raster or vector formats for display and as a template for mesh generation and parameter editing
- Integrated GIS functionality (attribute handling, overlay and join functions) for spatial information and automatic parameter assignment
- Context-sensitive online help
- Real-time visualization of transient flow and transport results
- Access to different time levels and operations between time levels supported in the post-processor
- Model summary and context-driven messages for optimal user orientation

**Analysis Features**
- 2-D or 3-D systems (plan view, x-section or axisymmetric)
- Transient or steady-state groundwater flow
- Multiple free surfaces (perched water table)
- Chemical mass and heat transport (also thermohaline)
- Density dependent flow (e.g. saltwater intrusion)
- Unsaturated flow and transport
- Fracture modeling
- Contaminant transport processes include advection, linear and nonlinear dispersion, linear and nonlinear sorption isotherms, and single species reaction kinetics
- Fully integrated automatic calibration based on PEST
- Groundwater/Surface water coupling with MIKE 11
- Fast iterative solvers as well as direct solvers

**Output Display Features**
- 3-D visualization of the model domain with color-shaded contours, isolines, 3-D isosurfaces and fence diagrams
- 2-D color-shaded and isoline contouring of scalar data
- 3-D and 2-D particle tracking with isochrone markers
- Display of 3-D cross sections and velocity vectors
- Interactive 3-D rotation and zoom
- Graphical budget analyzer for flow, mass, and heat balances
- Graphical flux analyzer for computing fluxes through cross sections and layers

**FEFLOW & CALPUFF View Pricing**

**FEFLOW 2D**
- Starting from... $1500 Euros

**FEFLOW 3D**
- Starting from... $3500 Euros

**AUSTAL View**
- Single-user - includes one year of support and updates

**CALPUFF View**
- Single-user - includes one year of support and updates

**Pricing**

**Academic and Government Discounts Available**

**AUSTAL View**
- AUSTAL View $4490

**CALPUFF View**
- CALPUFF View $3490

**FEFLOW View**
- FEFLOW View $1199

**Lagrangian Particle Tracking Air Dispersion Model**

AUSTAL View is an ergonomic and intuitive user interface for the official German Federal Environmental Agency air dispersion model – AUSTAL2000.

AUSTAL View uses a Lagrangian particle tracking air dispersion model that contains its own diagnostic wind field model. Thus, the model takes into account the influence of topography on the wind field and therefore on the dispersion.

**Features**
- Interactive graphical input of sources and receptor grids
- True 3D visualization
- Emission time series generator
- Effective control of time dependent parameters
- Extensive map support
- Multiple sources and receptors
- Hourly or statistical met data
- Import AUSTAL2000 files
- 100% support for AUSTAL2000 features
- Checks for project completeness before run
- Superposition of background concentration

**Applications**
- Toxic pollutant deposition
- Visibility assessments
- Complex terrain
- Secondary pollutant formation
- Long range & overwater transport
- Building downwash

**Pricing**

**Academic and Government Discounts Available**

**AUSTAL View**
- Single-user - includes one year of support and updates

**CALPUFF View**
- Single-user - includes one year of support and updates

**Lagrangian Particle Tracking Air Dispersion Model**

**Output**
- Display model results as contours, shaded cells, and posting
- Graph of concentration time series at monitor points
- Display model results as contours, shaded cells, and posting
- 100% support for AUSTAL2000 features
- Checks for project completeness before run
- Superposition of background concentration
Air Dispersion Modeling & Advanced Visualization

AERMOD View is a complete and powerful air dispersion modeling package which seamlessly incorporates the popular U.S. EPA models into one interface: ISCST3, ISC-PRIME, and AERMOD. These models are used extensively to assess pollution concentration and deposition from a wide variety of sources.

Features
- Integrated Graphical User Interface
- Powerful 3D Visualization
- Export to Google Earth
- New Project Wizard
- AERMOD Parallel at No Extra Cost
- Professional Printing Templates
- Multi-Chemical Utility
- Terrain Processor with Automatic Downloads
- Complete Meteorological Pre-Processors

Pricing
- AERMOD View $1,995

SLAB View

Emergency Release Dense Gas Model

SLAB View is a graphical user interface and complete modeling environment for the U.S. EPA SLAB model for toxic gas accidental release. Used to predict hazardous zone and potential impacts of accidental releases and is ideal for the EPA's Risk Management Plan (RMP) and to analyze emissions from accidental releases of toxic gases.

Features
- Model continuous, finite duration, and instantaneous releases
- Sources: ground-level evaporating pool, elevated horizontal jet, stack or elevated vertical jet, ground-based instantaneous release
- Integrated modeling environment: intuitive data input, model run, and full-featured postprocessing with automatic gridding and contour plotting of results
- An extensive database of toxic materials is included
- Create impressive presentations of your model results

Pricing
- SLAB View & SLAB 3D View $990

CALRoads View

Traffic Air Dispersion Modeling

CALRoads View combines three popular mobile source air dispersion models, CALINE4, CAL3QHC, and CAL3QHCR, into one seamless integrated graphical interface. This package is used for predicting air pollution concentrations of carbon monoxide (CO), nitrogen dioxide (NO2), particulate matter (PM), and other inert gases produced by motor vehicles.

Model Features
- CALINE4 - Predicts air concentrations of carbon monoxide (CO), nitrogen dioxide (NO2), and suspended particles near roadways
- CAL3QHC - Estimates total air pollutant concentrations, CO or PM, near highways from both moving and idling vehicles
- CAL3QHCR - An enhanced version of CAL3QHC, this model can process up to a year of hourly meteorological data

Pricing
- CALRoads View $990

Processing MODFLOW Pro

Processing MODFLOW Pro is a complete, affordable simulation system for MODFLOW based modeling. It comes complete with a professional graphical preprocessor and postprocessor for groundwater modeling and seamlessly interfaces with 3D Master for visualization and animation.

Simulation Capabilities
- Includes MODFLOW-88/96/2000, MT3D, MT3DMS, MOC3D, PMPATH, UCODE, and PEST-ASP
- Supports the Streamflow-Routing Package, Horizontal-Flow Barrier Package, Reservoir Package, and Time-Variant Specified Head Automatic Postprocessor
- Supports various equation solvers
- Generates heterogeneously-distributed parameter fields for stochastic simulation
- Automatic parameter estimation and sensitivity analysis using MODFLOW-2000, PEST-ASP, and UCODE

Model Display
- 3-D visualization and animation using 3D Master
- Interactive display in plan and cross sectional view
- Color-shaded contouring of model properties and simulation results on plan view and cross sections
- Display and animate pathlines and velocity vectors

3D Visualization & Animation

3D Master is an analysis and presentation tool that provides 3D visualization and animation of a wide range of environmental data and numerical simulation results. 3D Master supports input from all industry standard numerical models including MODFLOW, MT3DMS, RT3D, PHT3D, MOC3D, PMPATH, MODPATH and most industry-leading MODFLOW GUIs such as Processing MODFLOW Pro, Groundwater Vistas, GMS, Argus ONE and Visual MODFLOW.

- Display simulation results (head, drawdown, multispecies concentration) using color gradient contour maps and 3D isosurfaces
- Display particle tracking data using 3D pathlines from MODPATH, PMPATH, and PATH3D
- Display velocity vector results
- Create multiple slices through the contaminant plume
- Create 3D cutaways to gain information in the core of contaminant plumes
- Create semi-transparent or wire-frame views of all display objects
- Display pumping wells, observation wells, borehole logs.
- Animate time-varying numerical simulation results (concentration, head, drawdown and flow velocity)

3D Master

- PMWIN Pro $1,195
- 3D Master $495
- PMWIN Pro & 3D Master $1,595
- PMWIN Upgrade $495

Features
- Supports models with up to 1,000 stress periods, 200 layers and 250,000 cells in each model layer
- Specify model parameters using Cell-by-Cell, Zones, and Polyline tools
- Rotate and align the model grid to the site base map
- Overlay maps in AutoCAD (.dxf), SURFER (.bln), or bitmap image (.bmp)
- Import existing MODFLOW files and model results
- Interpolation of discrete data by means of Inverse Distance Weighting, Kriging, or Triangulation
- Telescopic Mesh Refinement for creating a local scale model from a large scale model
- Graphical grid design tools

Formats
- Supports the display of sitemap formats: .dxf (AutoCAD), .shp (ArcView shape), .bmp (bitmap image)
- Create and save animations in standard .avi format
- Export screen image to a graphics (.bmp) file or to the clipboard for ease of creating custom presentations

Pricing
- Academic and Government Discounts Available!
Hydro AS-2D

Hydro AS-2D performs 2D modeling of bodies of water. The procedure integrated in Hydro AS-2D is based on the numerical solution of the 2D current equations with Finite-Volume Discretization. In addition to 2D current simulation, Hydro AS-2D can also simulate pollutant and sediment transport.

### Features
- Solves hundreds of thousands of elements very quickly
- Calculation accuracy guaranteed by extensive lab tests and real-world applications
- High stability, robustness and exactness for a wide spectrum of hydrodynamic conditions
- Volumetric accuracy of the tidal wave propagation on complicated topography
- Solutions showing flow speed, direction, and flood depth
- The bed changes as a result of sediment erosion and sediment deposition are modeled
- Fully coupled transport and hydrodynamic solver ensures current changes due to sediment scour/deposition are accurately simulated
- Simulate transport of up to five grain dimensions at the same time
- Full support in SMS with the Generic Model Interface

### Pricing
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<th>Package</th>
<th>Price</th>
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<tr>
<td>Professional Single User</td>
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<tr>
<td>Oracle/SQL Call</td>
<td>$2290</td>
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</table>

Please contact us for upgrade and multi-user pricing.

SoilVision

SoilVision is a complete database solution for the personal or corporate warehousing of geotechnical, geoenvironmental, and soil science soils data. Estimate soil properties or a networked central soils database, including SoilVision's database of over 6000 soil samples.

### Features
- Data warehousing of your corporate soil data on an industry standard format
- Centralize soils data on a server
- Manage geoenvironmental data
- Theoretical estimation of hydraulic soil properties for seepage modeling
- Mathematical fitting of soil property functions
- Statistical module allows calculation of statistical variance of any soil property
- Over 20 theoretical methods for estimating unsaturated soil properties
- Manage borehole and well data
- Export borehole data to ArcView for special visualization
- Export borehole surface data to Surfer for visualization of geological formations
- Over 45 professional reports from which to choose
- High-quality reports including multiple industry-standard reports for sieve analysis (ASTM, AASHTO, USDA), hydrometer analysis, consolidation and compaction testing

### Software Compatibility
- Graphics - Excel, Surfer, TecPlot, Grapher
- GIS - ArcView, Sylvan Maps
- Borehole Logs - WinLog, QuickLog, QuickCross/Fence

### Pricing
<table>
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<tr>
<td>Oracle/SQL Call</td>
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Please contact us for upgrade and multi-user pricing.

SVFlux/Heat/ChemFlux

SVFlux, SVHeat, and ChemFlux are a family of powerful and stable finite element groundwater modeling software. Characterized by automatic mesh generation, automatic mesh refinement and automatic time-step refinement, each software package uses the powerful FlexPDE™ 2D / 3D solver which is highly automated. With automated solver and CAD front end, reductions in modeling time of over 70% are average!

### Features
- AutoCAD™ style CAD input
- Comprehensive user’s, tutorial, and verification manuals
- Model saturated / unsaturated flow
- Automatic mesh generation based on geometry
- Automatic mesh refinement based on any relevant problem variables.
- Automatic time-step refinement for transient problems

### Saturation levels may be imported from the SVFlux software
- Temperature or gradient boundary conditions may specified as constants or free-form equations
- Analyze steady-state thermal conduction problems as well as transient freeze-thaw problems
- User defined soil properties define the latent heat released or absorbed during the ice-water phase change

### Software Compatibility
- SVFlux, SEEP/W, FEFLOW, GMS, Visual MODFLOW, SVHeat, ChemFlux, Plaxis, SIGMA-W, CTRAW/W
- Graphics - Excel, Surfer, TecPlot, Grapher
- GIS - ArcView, Sylvan Maps
- Borehole Logs - WinLog, QuickLog, QuickCross/Fence

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<td>$6640</td>
</tr>
<tr>
<td>ChemFlux 2D/3D Pro</td>
<td>$5260</td>
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</tbody>
</table>

Please contact us for upgrade and multi-user pricing.

TUFLOW

TUFLOW is a finite difference 2D and 1D flood and tide simulation software. It simulates the hydrodynamics of water bodies using 2D and 1D free-surface flow equations. TUFLOW is developed for determining flow patterns in coastal waters, estuaries, rivers and floodplains where the flow patterns are essentially 2D in nature and cannot or would be awkward to represent using a 1D network model.

### Features
- Excellent model stability and convergence - an advantage of the finite-difference formulation
- Rapid wetting and drying - elements of your model can be wetted/dried several times without stability problems
- 1D and 2D representation of hydraulic structures
- Powerful 1D and 2D linking options - represent floodplain features with 1D or 2D and TUFLOW manages the dynamic interaction
- Multiple 2D domains - break the study area into any number of domains, each with its own orientation and cell resolution, that are dynamically linked during simulation
- Automatic flow regime switching over levees and embankments
- 1D and 2D supercritical flow modeling
- Fully integrated into SMS (Surface-water Modeling System)

### Applications
- Hurricane/cyclone storm-surge modeling
- Modeling flooding in major rivers through to complex overland and piped urban flows
- Modeling estuarine and coastal hydraulics
- Urban flood mapping
- Evaluation of flood control structures

### Pricing
<table>
<thead>
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<td>SMS TUFLOW Pkg.</td>
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</table>

Please contact us for upgrade and multi-user pricing.

Advanced 2D Hydrodynamic Simulation Model

2D & 1D Flood and Tide Simulation Model

Advanced 2D Hydrodynamic Simulation Model

2D & 3D Seepage, Contaminant Transport, and Geothermal Modeling

SVFlux, SVHeat, and ChemFlux are a family of powerful and stable finite element groundwater modeling software. Characterized by automatic mesh generation, automatic mesh refinement and automatic time-step refinement, each software package uses the powerful FlexPDE™ 2D / 3D solver which is highly automated. With automated solver and CAD front end, reductions in modeling time of over 70% are average!
The Premier Solution for Riverine, Floodplain & Coastal Modeling Since 1991

The Surface-water Modeling System (SMS) is a comprehensive environment for hydrodynamic modeling, transport analysis, and wave modeling. A pre- and post-processor for surface water modeling and design, SMS includes finite-element and finite-difference modeling tools. Model applications calculate water surface elevations and flow velocities for water flow problems with steady-state or dynamic conditions. Other applications include the modeling of contaminant migration, salinity intrusion, sediment transport, wave energy dispersion, wave properties and storm surge flooding.

Model Design Features
- Construct finite element meshes and finite difference grids of rivers, estuaries, bays, wetlands, coastal areas, and open ocean
- Robust algorithms have been developed to allow you to handle large data sets (such as bathymetry data collected by LIDAR survey) with speed and accuracy
- Images (TIFF, JPEG) can be geo-referenced, joined, and clipped
- Use TIFF or JPEG images to guide on-screen digitizing and to enhance presentation
- Boundary conditions and material properties from data layers can be assigned to your model using GIS overlay
- Coordinate System Conversions
- Control mesh/grid density and type by assigning properties to simple GIS objects
- Create observation points/cross sections for review and calibration of your model output
- Use Model Steering tools to set up automatic data sharing between models or automatic “Spin-Down” of complex models

Model Visualization Features
- Display model properties and simulation results with vector plots, contour plots, color-shaded contour plots, and time-history plots
- Steady-state and transient solutions can be animated using either particle trace, vector, or contour animation
- Use CAD, Image, or GIS data for background maps
- Render high resolution 3D model plots with shading and contouring
- Interpolate any data set to a grid or mesh for visualization of parameters
- Export .kmz files for visualization in Google Earth

Supported Models
- FESWMS - 2D hydrodynamic modeling of both super and sub-critical flow, including sediment transport
- RM2A - 2D hydrodynamic modeling of sub-critical flow, including wetting and drying and marsh porosity
- RMA4 - for transport of a contaminant, salinity intrusion, or tracking DO and BOD in a 2D system
- TUFLOW - 1D & 2D finite difference flow model for flood and tidal wave propagation. Rapid and stable wetting and drying solutions, super-critical flow and hydraulic structures
- PTM - Particle tracking model
- ADCIRC - 2D barotropic time-dependent long wave hydrodynamic circulation model. Intended for deep ocean, continental shelves, coastal seas, and estuarine systems
- CMS-Flow2D - (formerly M2D) 2D hydrodynamic circulation model intended for analysis of coastal areas
- CMS-Wave - 2D phased-averaged energy balance model for wave diffraction and reflection, refraction wave shoaling, breaking and wave current interaction
- SWAVE - for wave refraction and shoaling, wave breaking, diffraction, wave growth because of wind input, wave-wave interaction and white capping
- CGWAVE - simulate the effects of refraction, diffraction, reflections by bathymetry/structures, dissipation due to friction and breaking, and nonlinear amplitude dispersion
- BOUS2D - simulate the propagation and transformation of waves based on Boussinesq-type equations
- Generic Model - for linking your in-house model to the powerful SMS model building and visualization tools

Modeling and Design Features
- Create observation points/cross sections for review and calibration of your model output
- Use Model Steering tools to set up automatic data sharing between models or automatic “Spin-Down” of complex models

Computational Features
- Handles complete desaturation and resaturation of cells
- Accurate delineation and tracking of water table position, taking into account flow in the unsaturated zone, delayed yield, and vertical flow components
- Automatic and correct redistribution of the total flow rate of a well screened through multiple model layers when the upper cell(s) are pumped dry
- Prevents water table buildup beyond a specified recharge-pumping elevation
- Handling of seepage face boundary conditions
- Capability of modeling unsaturated water or air movement
- Enhanced Newton-Raphson linearization option increases robustness for unconfined and/or unsaturated flow conditions
- Full graphical interface with Groundwater Vistas

Enhanced MODFLOW Engine with Sat/Unsat & Transport Capability

MODFLOW SURFACT is a comprehensive 3D finite difference flow and contaminant transport model based on the USGS MODFLOW code. With more enhanced simulation capabilities for handling complex saturated/unsaturated subsurface flow and transport processes, MODFLOW SURFACE is specifically designed to address the many limitations and short-comings of the standard MODFLOW code.

Professional Applications
- Simulate multiple multiple water tables or perched water tables
- Simulate surface water infiltration through the vadose zone to the water table.
- Simulation of large water table fluctuations causing desaturation/resaturation (drying/wetting) of grid cells
- Simulate soil vapor flow through the unsaturated zone
- Fractured porous media simulations with dual porosity and discrete fracture representations

Pricing

**SMS Complete Pkg.** $11850
- Includes all except CGWAVE, BOUS2D, TUFLOW

**CUSTOM PACKAGES:**
- **SMS Riverine Pkg.** $3950
  - Map, Mesh, Grid, Scatter, RMA2, RMA4, FESWMS
- **SMS Coastal Pkg.** $7700
  - Map, Mesh, Grid, Scatter, SWAVE, CMSFlow, CMSWAVE, ADCIRC
- **SMS TABS Pkg.** $3200
  - Map, Mesh, Grid, Scatter, RMA2, RMA4

Many other packages are available! Please contact us or visit our website for details.

SVE-3D

SVE-3D is a sophisticated soil vapor extraction (SVE) modeling software. SVE-3D can be used to estimate the number of SVE wells required, well spacing, and cleanup time under complex conditions. SVE-3D can handle complicated hydrogeology with spatially distributed or time varying contamination sources.

Pricing

**SVE-3D Professional** $1695

**Pricing**

**SMS Complete Pkg.** $11850
- Includes all except CGWAVE, BOUS2D, TUFLOW

**CUSTOM PACKAGES:**
- **SMS Riverine Pkg.** $3950
  - Map, Mesh, Grid, Scatter, RMA2, RMA4, FESWMS
- **SMS Coastal Pkg.** $7700
  - Map, Mesh, Grid, Scatter, SWAVE, CMSFlow, CMSWAVE, ADCIRC
- **SMS TABS Pkg.** $3200
  - Map, Mesh, Grid, Scatter, RMA2, RMA4

Many other packages are available! Please contact us or visit our website for details.
Multiphase Hydrocarbon Vacuum Enhanced Flow & Transport

BIOSLURP is an areal finite-element model to simulate three-phase (water, oil and gas) flow and multi-component transport in groundwater in the unsaturated zone. BIOSLURP can be used to optimize the recovery of LNAPL, water, and gas by minimizing NAPL entrapment in the saturated/unsaturated zones, and simultaneously simulate multispecies aqueous and gas phase transport in unconfined aquifers. BIOSLURP can also simulate coupled flow of water and LNAPL with a static atmospheric gas phase, as well as the transport in groundwater.

BIOSLURP simulates heterogeneous, anisotropic porous media or fractured media. It allows use of isoparametric elements to accurately represent material and physical/hydraulic boundaries. Bioslurping (vacuum enhanced recovery) increases gradients in water and oil potentials with minimal fluctuations in the fluid tables and thus helps to reduce volume of residual product and enhance free product recovery.

Key Features
- Initial conditions and free oil volume are estimated internally from the monitoring well fluid level data
- Rectangular and/or 2-D isoparametric quadrilateral elements to accurately model irregular features
- Bioslurping (vacuum enhanced recovery) of NAPL and water phases is simulated
- Oil, gas, and water recovery rates are computed
- Interactive graphical mesh design with BIOSLURP’s resident pre-processor
- Areal distribution of hydrocarbon is continuously updated and used to estimate transient contaminant loading to groundwater and vadose zone and compute the inter phase mass transfers between water, oil, and gas phases
- Convection, dispersion, diffusion, adsorption, first order microbial oxygen-limited bio degradation kinetics, and sequential degradation involving multiple daughter products
- Spatially-variable recharge, injection or LNAPL leakage
- Multiple pumping and/or injection wells

Pricing

<table>
<thead>
<tr>
<th>Package</th>
<th>Academic and Government Discounts Available</th>
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</thead>
<tbody>
<tr>
<td>BIOSLURP</td>
<td>$2745</td>
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Stormwater Modeling, Design and Analysis

XPSSWMM is a powerful engine and interface for sewer system design and analysis. XPSSWMM allows 2D modeling for advanced floodplain analysis, catchment and stormwater analysis. Uses include the design, analysis and modeling for Stormwater Management, Sanitary Sewers, and Floodplain Management.

Key Features
- GIS Integration - Use ODBC compliant databases, import and display ESRI shape files and MapInfo files
- Scenario Manager - Compare model results for scenarios in both graphics and tables
- Global Storms - Management of data that may be referenced from multiple nodes and links reducing data redundancy and updating changes to many locations
- Dual Drainage - Simulate flow in conduits and in streets when flow is limited by inlet capacity
- DTM - Digital Terrain Builder creates topographic surfaces from x,y,z coordinates, extract manhole elevations, cross section cuts for 1D modeling and stream inverts and 3D renderings
- Animations - Create and view dynamic long section, color coded plan view, and 3D perspective view
- Real Time Control Simulations - Capability control for gates, valves, flow regulators, moveable weirs, and telemetry-controlled pumps
- XP2D Module - Overland flow simulations in both urban and rural scenarios. Ability to export grid-based 2D results, display contours, and view water depths and levels in the 1D domain as well as the 2D flooding area

Pricing

<table>
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<td>XPRAFTS</td>
<td>$2990 (AUS)</td>
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MARS/BIOF&T Features
- Transient 2-D or 3-D multicomponent aqueous phase transport in groundwater aquifers
- Temporal and spatial variations in the source (residual dense or light nonaqueous phase liquids) and computed loading to groundwater
- Model specified concentration, mass flux and source/sink boundary conditions
- Convection, dispersion, diffusion, adsorption, desorption, and microbial processes
- Computationally-efficient matrix solution by conjugate gradient method with preconditioning

Pricing

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<td>MARS 2D + BIOF&amp;T 3D</td>
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MARS is a 2D multiphase areal remediation simulator to model coupled areal flow of water and light nonaqueous phase liquid (LNAPL). When used with BIOF&T 2D or 3D aqueous phase transport up to five species in groundwater can also be simulated. MARS can be used to simulate recovery and migration of LNAPL and groundwater cleanup in heterogeneous and/or anisotropic fractured or porous media.

MARS Features
- Initial conditions and free oil volume are estimated internally from the monitoring well fluid level data
- Oil and water recovery rates vs. time are computed
- Areal distribution of residual hydrocarbon is computed and used to estimate transient contaminant loading to groundwater if transport simulations are performed
- Interactive finite-element mesh generator
- Spatially-variable water recharge, injection or LNAPL leakage
- Model multiple pumping and/or injection wells and trenches
- Model specified head and flux boundary conditions
- Simulate fractured media or granular porous media based on the dual porosity approach

BIOF&T Features
- Convection, dispersion, diffusion, adsorption, desorption, and microbial processes
- Computationally-efficient matrix solution by conjugate gradient method with preconditioning

Pricing

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<td>XPRAFTS</td>
<td>$2990 (AUS)</td>
</tr>
</tbody>
</table>

xrafts will revolutionize your urban and rural storm water drainage practise by accurately analyzing rainfall and runoff in any land use area. Custom-made to follow Australian rainfall/runoff modeling procedures (using the Laurensen method and AR&R data). Additionally, RAFTS has been applied to smaller urban drainage systems and the formulation of both on-site detentions systems up to large retaining basins and channel pipe systems.

- Extended retardation basin provisions to allow more complex outlet condition.
- Direct input of Muskingum K and X values where detailed channel data is unavailable.
- It is now possible to allocate portions from multiple gauges to individual sub-catchments based on the polygon analysis.
- The analysis engine RAFTS has been upgraded to allow far larger networks and routing periods. This effectively allows runs of multiple years in a single solve.
- Long term continuous Simulation Facilities including Flood frequency results.
- Results have been greatly enhanced to provide truly professional presentation graphics.
- Compare results of multiple storms on a single page
The Watershed Modeling System (WMS) is a comprehensive graphical modeling environment for all phases of watershed hydrology and hydraulics. WMS includes powerful tools to automate modeling processes such as automated basin delineation, geometric parameter calculations, GIS overlay computations (ON, rainfall depth, roughness coefficients, etc.), cross section extraction from terrain data, and many more.

The WMS software now supports hydrologic modeling with several industry-standard models, hydraulic modeling of 1D channels and pipe networks, and 2D integrated hydrologic modeling.

### Automated Watershed Delineation
Using digital terrain data, WMS can automatically delineate a watershed and sub-basins. Commonly used hydrologic parameters such as basin area, slope, mean elevation, and maximum flow distance are automatically computed.

- Easily use DEMs (grids) or TINs for delineation
- Model any number of sub basins with interior outlet points
- Manipulate stream networks to represent man-made features or proposed changes in the watershed
- Override derived basin boundaries to match your knowledge of the watershed
- Import elevation and other data from multiple sources including CAD or GIS databases

### GIS Features
WMS includes a complete set of tools for importing, creating, and manipulating GIS vector and raster data.

- Direct linkage with ESRI’s ArcGIS - this lets you use the powerful data catalog tools of ArcGIS in WMS
- Terrain data can be created, merged, and manipulated using grids, TINs, or contour lines
- Data layers such as land use and soil type can be clipped to match your watershed
- Attribute tables can be joined and queried
- TIFF, JPEG, MrSID files can be geo-referenced and tiled
- Coordinate System Conversions - Convert data between geographic and planar coordinate systems

### Floodplain Mapping
Powerful interpolation algorithms in WMS allow you to create flood extents and flood depth maps using digital terrain data.

- Use fast and easy open channel hydraulics tools in WMS to create approximate (Zone A) maps
- Use HEC-RAS and cross section integration for detailed (Zone AE or AH) maps
- Create GIS maps with proper attributes and save them to shapefiles or directly to a geodatabase
- Generate flood depth maps for an entire watershed using GSSHA gridded solution datasets

### Hydrologic Simulation
WMS includes several hydrologic models that can be used for simulation based on your GIS/terrain data.

- HEC-1, HEC-HMS, TR-20, TR-55, Rational Method, NFE - industry-standard lumped parameter methods for prediction of peak flow and runoff hydrographs
- MODRAT, OC Rational, OC Hydrograph - localized models for runoff prediction for LA County and Orange County, California
- HSFP - hydrologic and water-quality model for land surfaces, streams, and impoundments
- GSSHA - distributed (2D) hydrologic model for analysis of surface runoff, channel hydraulics, groundwater interaction, water quality and sediment transport

### Hydraulic Simulation
Several 1D hydraulic models can be created from GIS data and linked to hydrologic models and run with WMS.

- HEC-RAS - compute water surface profiles for steady-state or gradually varied flow in river channels
- SMPDBK - Simplified Dam-Break analysis for predicting downstream flooding produced by a dam failure
- GSSHA - 1D channel hydraulics coupled seamlessly with overland flow hydraulics

### Water Quality Analysis, Modeling & Reporting
The Complete Solution for Water Quality Data Management! AquaChem features a fully customizable database of physical and chemical parameters and provides a comprehensive selection of analysis tools, calculations and graphs for interpreting, plotting and modeling water quality data.

**AquaChem Highlights**
- MS Access relational data management system ensures data integrity, improved performance, greater flexibility for entry, analysis, and plotting of water quality data
- Automatically identify water quality exceedances through built-in guidelines from the U.S. EPA, WHO, and CEEM, or customize your own guidelines
- Quickly graph/plot your water quality data from a selection of 19 standard analysis plots
- Time-saving utilities include Unit Converter, Species Converter, Concentration Decay Calculator, Volumetric Concentration Converter, and Quality Assurance Tool
- Standard reports for Statistics (Average, Variance, Percentiles, Mann-Kendall, etc.), Comparisons, Correlation and Mixing, and validate samples using Reliability Checks and Source Rock Deductions
- Design and print professional reports or save into *.HTML, *.CSV, *.TXT, or *.RTF file formats
- Built-in link to PHREEQC for calculating saturation indices, pH values, or Eh values
- Built-in geochemical calculators

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### AquaChem Pricing

**Academic\&Government Discounts Available!**

- AquaChem Single-user **$1390**

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### AquiferTest Pro Pricing

**Academic\&Government Discounts Available!**

- Aquifer Test Standard **$890**
- Aquifer Test Pro **$1190**

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### Professional Applications
- Aqueous geochemical analysis of municipal groundwater supply wells
- Reporting of lab results from contaminated sites
- Calculating water hardness for use in water treatment
- Identifying mineralization trends for mining exploration
- Identifying water quality guideline exceedences

### AquiferTest Pro

AquiferTest Pro is an advanced and easy-to-use groundwater software package for graphical analysis and reporting of pumping test and slug test data. With the ability to characterize your aquifer and analyze pumping and slug tests, AquiferTest Pro features all of the tools you need in one convenient groundwater data analysis program.

**Calculate Hydraulic Parameters Of:**
- Confined aquifers
- Leaky aquifers
- Unconfined aquifers
- Fractured rock aquifers

**Benefit from new power features such as:**
- Advanced derivative analyses
- Diagnostic graphs
- Data contouring with color shading plots
- Barometric and baseline trend correcting

---

### Water Authority Projects
- Enforce regulations and compliance
- Track injection and withdrawals
- Calculate pumping interference during pumping
- Reporting baseline aquifer properties including groundwater resources projects
- Preparing professional pumping test reports for submission to water authorities
- Mapping and contouring drawdown data from groundwater pumping

---

### Reporting
- Network diagram of your groundwater system
- Matrix of hydraulic parameters
- EPA, WHO, CEEM, or customized guidelines
- Title pages, introduction, data summary, conclusions
- AquiferTest Pro using WMS for groundwater modeling

---

### The Premier Solution for Watershed Modeling Since 1993

The Premier Solution for Watershed Modeling Since 1993

- WMS - Watershed Modeling System
- Scientific Software Group
- www.scientificsoftwaregroup.com
- Toll Free: 866 620-9214 or 801 208-3011

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- Built-in geochemical calculators
Pumping Test, Slug Test, and Step Test Analysis

AquiferWin32 is a comprehensive application for pumping test analysis, slug test analysis and step test analysis. In addition, AquiferWin32 performs analytical groundwater flow modeling and pumping test simulations.

Features
- Data can be entered conveniently using the import wizard, or you can enter data manually by cutting and pasting from spreadsheets or by importing text files
- Analyze your data using either manual on-screen curve matching, by the click-and-drag feature, or via automated statistical matching techniques
- Simultaneously optimize multiple data sets
- Define an analysis by grouping wells, transforming and clipping well response data, optionally adjust for radial distance on a well by well basis
- Analyze and/or simulate pump test consisting of any number of pumping wells, each pumping at variable rates monitored at any number of monitoring wells
- Customizable Headers/ Footers supporting Bitmaps and Metafiles
- Modeling version adds a full analytical modeling environment including the WinFlow analytical flow model
- Full control of graphs including size, titles, axes, colors, fonts, dash patterns and line thickness

Analysis Methods
- Analyze confined, unconfined, leaky confined, fractured rock aquifers
- Primary support for traditional manual curve matching
- User selectable and unlimited type curves on curve match graph
- Solutions: Hvorslev, Bouwer & Rice, Black, Cooper, Bredehoeft & Papadopoulos, KGS Model, Thiem, Cooper and Jacob, Thies, Papadopoulos and Cooper, Hantush and Jacob, Hantush, Neuman, Eden & Hazel, Birsoy and Summers, Kipp, Moench

Visualize Site Data: Boreholes, Wells, Stratigraphy, Soils

QuickLog is a suite of site data logging and visualization programs that will allow you to store and visualize borehole and well data quickly and easily. In addition, you can link your data to GIS systems and perform soil data analysis.

QuickLog
QuickLog greatly speeds and simplifies the process of creating boring log/well construction diagrams. Featuring a point and click graphical interface, it’s intended for use by geologists or data entry staff members to create diagrams without the need for a CAD system. Top features of QuickLog are:
- Graphical User Interface - easy to learn and use
- Fast, standardized description entry
- Quick, flexible format set-up - The log format is created “on-the-fly” by listing the column types to be shown
- QuickLog includes all the basic column types (USCS, description, sample interval, blow count, well construction, etc.). It also lets you create up to 36 user-defined column types to display virtually any parameter
- Display parameters in columns or in 4 types of graphs
- Detailed well construction, sieve analysis cuttings, formations
- Exchange logs with clients, export log data to and from databases

QuickCross/Fence
The QuickCross and QuickFence modules use data already entered in QuickLog to create 2-D cross sections and 3-D fence diagrams. Top features include:
- Quickly choose borings for the cross section from QuickLog listing
- Instantly generate a basic cross section
- Connect geological layers using artificial intelligence
- Built-in drawing tools enable you to add layers, lenses, lines, text and symbols
- Generate true 3-D fence diagrams
- Use custom fill patterns created with any paint program
- Place up to 50 Borings and 2 parameters on any cross section
- Save Drawing Files to .BMP, .WMF, .EMF, .MDF

Quick GIS
QuickGIS enables you to organize the lithology data for a set of borings into a table of X, Y, Z coordinates so that it fills a defined set of geological layers ("layer cake format"). This is the format needed for exporting to programs such as ArcView and EVS.

QuickSoil
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WinFlow/WinTran

2D Groundwater Flow and Transport Model

WinFlow is an interactive, analytical model that simulates two-dimensional steady-state and transient groundwater flow for both confined and unconfined aquifers. WinTran couples the steady-state groundwater flow model from WinFlow with a contaminant transport model. The transport model has the feel of an analytic model but is actually an embedded finite element simulator.

WinFlow Features
- Simulates both steady-state and transient flow in confined and unconfined aquifers
- Simulates effects of wells, linesinks, ponds, and recharge
- Calibration targets and calculation of calibration statistics
- Visualizes model results with water-level contour maps
- Imports map files from DXF, QuickFlow, or ModelCad

WinTran Features
- Simulates steady-state flow and transient transport in confined and unconfined aquifers
- Simulates effects of wells, linesinks, ponds, and constant concentration sources
- Displays Peletic and Courant criteria and mass balance error during transport simulation
- Contours concentration at user-specified time steps

Pricing

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<th>WinFlow &amp; WinTran</th>
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<td>AquiferWin32 Professional</td>
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- Geographic Information System
- Database Management
- License Management
- 3D Display
- Import/Export

The most visual component of the base application is the platform that all of the other modules build upon. The program is comprised of a base application and several extension modules. The base application StrataExplorer is used as a primary platform that all of the other modules build upon. The non-industry specific modules are designed to be customized and added to the application, including:

- Environmental Site Management
- Geotechnical Site Management
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- Easy to Use
- Proven Technology
- Flexible Configuration

StrataExplorer Highlights

StrataExplorer is a new application suite for subsurface mapping and data management system. The program can be used to map and evaluate minerals, hydrocarbons, soil and rock properties, and contaminants. The application is ideal for the environmental, geotechnical, mining, oil sands, and petroleum industries.

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The most visual component of the base application is the geographic information system (GIS). It is used as the primary display and selection interface. The GIS incorporates ESRI’s ArcEngine technology and stores all of the basemap, project, well, boring, cross-section, and other spatial data for the application.

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The UnSat Suite groundwater software product is specifically designed to handle one-dimensional groundwater flow and contaminant transport in the unsaturated zone. This one dimensional model simulates the downward vertical flow of groundwater and migration of dissolved contaminants in the groundwater through a thin column of soil.

The revolutionary design of the UnSat Suite interface allows you to quickly and easily create a one dimensional unsaturated zone model using the simulation code that best suits your site conditions.

- Simulate long-term pollutant fate and transport (VOCs, PAHs, pesticides and heavy metals) in the unsaturated zone under seasonally variable conditions using SSESOL
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- Estimate agricultural pesticide migration through the unsaturated zone under steady-state flow conditions using PESTAN
- Simulate groundwater flow and contaminant transport processes through heterogeneous, unsaturated soil under variable flow conditions using VS2DT
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- Generating input data, presenting modeling results
- Sharing data between models

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- Automatically generate statistically reliable weather data for virtually any location in the world (or create your own)
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- Visualize full-color, high-resolution results
- Prepare a summary document (tables and graphs) for your report

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Main Features

- Unified Modeling Environment
- New Project Wizard
- Project Management
- Input Data
- Graphical Display
- Database Links
- PESTAN
- VS2DT
- SWS Weather Generator
- Seamless Integration
- Presentation of Results
- Automatic Report Generator
- Data Sharing
- Tutorials
- Discounts Available!
Environmental Sampling Database and Statistical Software

ChemPoint and ChemStat are the value leaders for environmental data management and statistical analysis software. Because of a unique combination of power, flexibility, ease-of-use, and quick up-time, ChemPoint and ChemStat are the market leaders for small to mid-size environmental consulting firms.

ChemPoint

ChemPoint is an environmental sampling database management application for Microsoft Windows. It was developed to track groundwater data at RCRA and CERCLA facilities. Although designed to manage soil and groundwater sampling, ChemPoint is also suitable for the management of surface-water, groundwater, soil, ash, sludge, bio-tissue, and air pollution sampling data.

- Assistance pages guide you through complex tasks
- Sufficient data fields for all common environmental monitoring needs
- Track sampling dates, sampling locations, containers, analysis results
- Easy data entry from user-defined lists
- Simplified data import from text, dBase, Access, Sanitas, Monitor, DUMPStat, and GRITS
- Most extensive set of utilities available to maintain database integrity
- Export data in a format compatible with most commercial statistical analysis applications
- Powerful reporting through nine standard templates or customizable options
- Create well construction diagrams

ChemStat

ChemStat is the easiest and fastest application available for the statistical analysis of groundwater monitoring data at RCRA facilities. ChemStat includes most statistical analysis methods described in USEPA statistical analysis documents as well as other methods.

- Unlimited parameters, wells, sample dates, name and well label length
- Easily exclude data points from analysis
- Easily represent non-detects with 0, 1, DL/2 or DL for any test
- Full report and graph printing and print preview
- Highly customizable user-interface
- Easy to learn with Advisor Window help to guide you to select the most appropriate method for your data set
- Accommodate censored data with Cohens or Atchisson's adjustments
- Analysis methods include graphical techniques, parametric methods, non-parametric methods, and distribution testing

ChemPoint Pro

ChemPoint Professional Edition is our enhanced version of the popular ChemPoint package. In addition to all of the capabilities of the standard edition, the professional addition includes the Chemstat package, and adds these features:

- Twelve different types of graphs
- Contour parameter concentrations using three gridding algorithms
- Export reports directly to Microsoft Excel or HTML tables
- Import EQuIS®, Geotech's Envirowdata® and GisKey® data
- Extensive Data Search capabilities
- User-defined data field values
- Multi-lingual user-interface support
- Print sample container labels.

Fast, Powerful Slope Stability Analysis System!

If you work on mining excavations, embankments, cuttings, dams, or foundations - you probably need GALENA!

GALENA is a powerful and easy-to-use slope stability analysis system developed for geotechnical, mining and civil engineers and is the program of choice of the US Government's Office of Surface Mining.

Analysis Features

- Stability Analysis, BackAnalysis, and Probability Analysis, with Bishop, Spencer-Wright and Sarma methods
- Automatic tension crack generation at the upper end of failure surfaces - a must for Spencer multiple analyses!
- Negative Rf values for suction heads
- External Forces to act at any point and angle on the slope, allowing simulation of bolts or other forces
- Distributed Loads to act on any planar part of the slope surface, allowing simulation of vehicle, railway and dragline loads, including complex loads with varying load values throughout the load profile
- The number of trial surfaces that can be analyzed within each analysis is virtually limitless (about 1 billion)

New Features

- Probability Analysis - expanded to include use the critical failure surface result from an embedded multiple analysis
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Integrated Hydrology and Slope Stability Software

CHASM is an integrated slope hydrology/slope stability software package that aids the assessment of slope stability conditions. It is designed to help the user estimate the effects on slope stability of selected storm events, surface covers, slope plan curvatures and other important slope and material properties.

The dynamics of slope hydrology are computed using a finite difference formulation that accommodates unsaturated and saturated soil water conditions. The stability analysis using the Bishop Method is undertaken using a grid search procedure, which is implemented continuously during the simulation period.

Model Design & Graphical Features

- Unsaturated and saturated slope hydrology modeled using a finite difference formulation directly coupled to slope stability slip search
- Fully dynamic slope hydrology implemented for convergent, divergent or rectilinear slope geometries
- Incorporation of vegetation cover effects for both slope hydrology and slope stability
- The Bishop Method of slices is used for stability analysis
- Specification of multiple soil strata and associated properties
- Output shows the grid slip surface and associated factor of safety at each hour during the total model runtime
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Pricing

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<tbody>
<tr>
<td>- Visual HELP</td>
<td>$990</td>
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Professional Applications
- Simulate multiple landfill profiles to find the most suitable design
- Evaluate leachate mounding or leakage problems with current landfills
- Determine the effectiveness of landfill caps for reducing leachate mounding
- Design and optimize leachate collection systems
- Visual HELP has also proven to be an extremely valuable tool for accurately predicting seasonal groundwater recharge for periods of up to 100 years for use in MODFLOW models. This seasonal recharge data has proven to significantly influence the vertical migration of contaminants through the unsaturated zone.

Pricing

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* Formerly WinFence
* Formerly WinLoG
* Call

For more information on extensions specific to the Geotechnical, Mining, and Oil industries.

www.scientificsoftwaregroup.com
Toll Free: 866 620-9214 or 801 208-3011
WinFlow is an interactive, analytical model that simulates two-dimensional steady-state and transient groundwater flow for both confined and unconfined aquifers. WinTran couples the steady-state groundwater flow model from WinFlow with a contaminant transport model. The transport model has the feel of an analytic model but is actually an embedded finite element contaminant transport model. The transport model has the feel of steady-state groundwater flow model from WinFlow with both confined and unconfined aquifers. WinTran couples the two-dimensional steady-state and transient groundwater flow for WinFlow/WinTran.

**Features**

- Data can be entered conveniently using the import wizard, or you can enter data manually by cutting and pasting from spreadsheets or by importing text files
- Analyze your data using either manual on-screen curve matching, by the click-and-drag feature, or via automated statistical matching techniques
- Simultaneously optimize multiple data sets
- Define an analysis by grouping wells, transforming and clipping well response data, optionally adjust for radial distance on a well by well basis
- Analyze and/or simulate pump test consisting of any number of pumping wells, each pumping at variable rates monitored at any number of monitoring wells
- Customizable Headers/ Footers supporting Bitmaps and Metafiles
- Modeling version adds a full analytical modeling environment including the WinFlow analytical flow model
- Full control of graphs including size, titles, axes, colors, fonts, dash patterns and line thickness

**Analysis Methods**

- Analyze confined, unconfined, leaky confined, fractured rock aquifers
- Primary support for traditional manual curve matching
- User selectable and unlimited type curves on curve match graph

**WinFlow Features**

- Simulates both steady-state and transient flow in confined and unconfined aquifers
- Simulates effects of wells, linesinks, ponds, and recharge
- Calibration targets and calculation of calibration statistics
- Visualizes model results with water-level contour maps
- Imports map files from DXF, QuickFlow, or ModelCad

**WinTran Features**

- Simulates steady-state flow and transient transport in confined and unconfined aquifers
- Simulates effects of wells, linesinks, ponds, and constant concentration sources
- Displays Pelet and Courant criteria and mass balance error during transport simulation
- Contours concentration at user-specified time steps

**QuickLog**

QuickLog is a suite of site data logging and visualization programs that will allow you to store and visualize borehole and well data quickly and easily. In addition, you can link your data to GIS systems and perform soil data analysis.

**QuickCross/Fence**

The QuickCross and QuickFence modules use data already entered in QuickLog to create 2-D cross sections and 3-D fence diagrams. Top features include:

- Quickly choose borings for the cross section from QuickLog listing
- Instantly generate a basic cross section
- Connect geological layers using artificial intelligence
- Built-in drawing tools enable you to add layers, lenses, lines, text and symbols
- Generate true 3-D fence diagrams
- Use custom fill patterns created with any paint program
- Place up to 50 Borings and 2 parameters on any cross section
- Save Drawing Files to .BMP, .WMF, .EMF, .MDF
- Connect geological layers using artificial intelligence
- Build virtual geological cross sections
- Use custom fill patterns created with any paint program
- Place up to 50 Borings and 2 parameters on any cross section
- Save Drawing Files to .BMP, .WMF, .EMF, .MDF

**QuickSoil**

The QuickSoil module produces a soil analysis table that shows soil sample test results. Each sample is placed at its correct depth and shaded according to the value of each parameter tested. It makes it easy to see areas of contamination throughout different soil layers.

**QuickGIS**

QuickGIS enables you to organize the lithology data for a set of borings into a table of X, Y, Z coordinates so that it fits a defined set of geological layers ("layer cake format"). This is the format needed for exporting to programs such as ArcView and EVS.

**Pumping Test, Slug Test, and Step Test Analysis**

AquiferWin32 is a comprehensive application for pumping test analysis, slug test analysis and step test analysis. In addition, AquiferWin32 performs analytical groundwater flow modeling and pumping test simulations.
The Premier Solution for Watershed Modeling Since 1993

The watershed Modeling System (WMS) is a comprehensive graphical modeling environment for all phases of watershed hydrology and hydraulics. WMS includes powerful tools to automate modeling processes such as basin delineation, geometric parameter calculations, GIS overlay computations (CN, rainfall depth, roughness coefficients, etc.), cross section extraction from terrain data, and many more!

The WMS software now supports hydrologic modeling with several industry-standard models, hydraulic modeling of 1D channels and pipe networks, and 2D integrated hydrologic modeling.

Hydrologic Simulation

WMS includes several hydrologic models that can be used for simulation based on your GIS/terrain data.

- HEC-1, HEC-HMS, TR-20, TR-55, Rational Method, NNF - industry-standard lumped parameter methods for prediction of peak flow and runoff hydrographs
- MODRAT, OC Rational, OC Hydrograph - localized models for runoff prediction for LA County and Orange County, California
- HSFP - hydrologic and water-quality model for land surfaces, streams, and impoundments
- GSSHA - distributed (2D) hydrologic model for analysis of surface runoff, channel hydraulics, groundwater interaction, water quality and sediment transport

Automated Watershed Delineation

Using digital terrain data, WMS can automatically delineate a watershed and sub-basins. Commonly used hydrologic parameters such as basin area, slope, mean elevation, and maximum flow distance are automatically computed.

- Easily use DEMs (grids) or TINs for delineation
- Model any number of sub basins with interior outlet points
- Manipulate stream networks to represent man-made features or proposed changes in the watershed
- Override derived basin boundaries to match your knowledge of the watershed
- Import elevation and other data from multiple sources including CAD or GIS databases

GIS Features

WMS includes a complete set of tools for importing, creating, and manipulating GIS vector and raster data.

- Direct linkage with ESRI’s ArcGIS - this lets you use the powerful data catalog tools of ArcGIS in WMS
- Terrain data can be created, merged, and manipulated using grids, TINs, or contour lines
- Data layers such as land use and soil type can be clipped to match your watershed
- Attribute tables can be joined and queried
- TIFF, JPEG, MsDl files can be geo-referenced and tiled
- Coordinate System Conversions - Convert data between geographic and planar coordinate systems

Hydraulic Simulation

Several 1D hydraulic models can be created from GIS data and linked to hydrologic models and run with WMS.

- HEC-RAS - compute water surface profiles for steady-state or gradually varied flow in river channels
- SMPORB - Simplified Dam-Break analysis for predicting downstream flooding produced by a dam failure
- GSSHA - 1D channel hydraulics coupled seamlessly with overland flow hydraulics

Floodplain Mapping

Powerful interpolation algorithms in WMS allow you to create flood extents and flood depth maps using digital terrain data.

- Use fast and easy open channel hydraulics tools in WMS to create approximate (Zone A) maps
- Use HEC-RAS and cross section integration for detailed (Zone AE or AH) maps
- Create GIS maps with proper attributes and save them to shapefiles or directly to a geodatabase
- Generate flood depth maps for an entire watershed using GSSHA gridded solution datasets

Water Quality Analysis, Modeling & Reporting

The Complete Solution for Water Quality Data Management! AquaChem features a fully customizable database of physical and chemical parameters and provides a comprehensive selection of analysis tools, calculations and graphs for interpreting, plotting and modeling water quality data.

AquaChem Highlights

- MS Access relational data management system ensures data integrity, improved performance, greater flexibility for entry, analysis, and plotting of water quality data
- Automatically identify water quality exceedences through built-in guidelines from the U.S. EPA, WHO, and CCME, or customize your own guidelines
- Quickly graph/plot your water quality data from a selection of 19 standard analysis plots
- Time-saving utilities include Unit Converter, Species Converter, Concentration Decay Calculator, Volumetric Concentration Converter, and Quality Assurance Tool
- Standard reports for Statistics (Average, Variance, Percentiles, Mann-Kendall, etc.), Comparisons, Correlation and Mixing, and validate samples using Reliability Checks and Source Rock Deductions
- Design and print professional reports or save into *.HTML, *.CSV, *.TXT, or *.RTF file formats
- Built-in link to PHREEQC for calculating saturation indices, pH values, or Eh values
- Built-in geochemical calculators

Professional Applications

- Aqueous geochemical analysis of municipal groundwater supply wells
- Reporting of lab results from contaminated sites
- Calculating water hardness for use in water treatment
- Identifying mineralization trends for mining exploration
- Identifying water quality guideline exceedences

Pricing

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</table>

Pump Test & Slug Test Data Analysis

AqueferTest Pro is an advanced and easy-to-use groundwater software package for graphical analysis and reporting of pumping test and slug test data. With the ability to characterize your aquifer and analyze pumping and slug tests, AqueferTest Pro features all of the tools you need in one convenient groundwater data analysis program.

Professional Applications

- Estimating the hydraulic properties of an aquifer (hydraulic conductivity, storativity, transmissivity)
- For use as input to 3D groundwater flow models
- Predicting drawdown effects resulting from groundwater pumping
- Optimizing pumping test design considering well diameter, pumping rate, screened interval, etc.
- Optimizing the placement of withdrawal wells due to proximity to existing wells
- Determining the presence of flow boundaries or well interference during pumping
- Reporting baseline aquifer properties including groundwater resources projects
- Preparing professional pumping test reports for submission to water authorities
- Mapping and contouring drawdown data from groundwater pumping

Pricing

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<tbody>
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<td>Aquifer Test Standard</td>
<td>$890</td>
</tr>
<tr>
<td>Aquifer Test Pro</td>
<td>$1190</td>
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</table>
the dual porosity approach

- Transport simulations are performed to estimate transient contaminant loading to groundwater if from the monitoring well/fluid level data

MARS Features

- Anisotropic fractured or porous media.
- LNAPL and groundwater cleanup in heterogeneous and/or transport of up to five species in groundwater can also be simulated.

BIOSLURP simulates heterogeneous, anisotropic porous media or fractured media. It allows use of isoparametric elements to accurately represent material and physical/hydraulic boundaries. Bioslurping (vacuum enhanced recovery) increases gradients in water and oil potentials with minimal fluctuations in the fluid tables and thus helps to reduce volume of residual product and enhance free product recovery.

BIOSLURP is an areal finite-element model to simulate three-phase (water, oil and gas) flow and multi-component transport in groundwater in the unsaturated zone. BIOSLURP can be used to optimize the recovery of LNAPL, water, and gas by minimizing NAPL entrapment in the saturated/unsaturated zones, and simultaneously simulate multispecies aqueous and gas phase transport in unconfined aquifers. BIOSLURP can also simulate coupled flow of water and LNAPL with a static atmospheric gas phase, as well as the transport in groundwater.

BIOSLURP simulates heterogeneous, anisotropic porous media or fractured media. It allows use of isoparametric elements to accurately represent material and physical/hydraulic boundaries. Bioslurping (vacuum enhanced recovery) increases gradients in water and oil potentials with minimal fluctuations in the fluid tables and thus helps to reduce volume of residual product and enhance free product recovery.

MARS/BIOF&T Features

- Transient 2-D or 3-D multicomponent aqueous phase transport in groundwater aquifers
- Temporal and spatial variations in the source (residual dense or light nonaqueous phase liquids) and computed loading to groundwater
- Model specified concentration, mass flux and source/sink boundary conditions
- Convection, dispersion, diffusion, adsorption, desorption, and microbial processes
- Computationally-efficient matrix solution by conjugate gradient method with preconditioning

BIOF&T is a 2D multiphase areal remediation simulator to model coupled areal flow of water and light nonaqueous phase liquid (LNAPL). When used with BIOF&T 2D or 3D aqueous phase transport up to five species in groundwater can also be simulated. MARS can be used to simulate recovery and migration of LNAPL and groundwater cleanup in heterogeneous and/or anisotropic fractured or porous media.

BIOF&T Features

- Initial conditions and free oil volume are estimated internally from the monitoring well fluid level data
- Rectangular and/or 2-D isoparametric quadrilateral elements to accurately model irregular features
- Bioslurping (vacuum enhanced recovery) of NAPL and water phases is simulated
- Oil, gas, and water recovery rates are computed
- Interactive graphical mesh design with BIOSLURP’s resident pre-processor
- Areal distribution of hydrocarbon is continuously updated and used to estimate transient contaminant loading to groundwater and vadose zone and compute the inter phase mass transfers between water, oil, and gas phases
- Convection, dispersion, diffusion, adsorption, first order microbial oxygen-limited bio degradation kinetics, and sequential degradation involving multiple daughter products
- Spatially-variable recharge, injection or LNAPL leakage
- Multiple pumping and/or injection wells

xrafts will revolutionize your urban and rural storm water drainage practice by accurately analyzing rainfall and runoff in any land use area. Custom-made to follow Australian rainfall/runoff modeling procedures (using the Laurensen method and AR&R data). Additionally RAFTS has been applied to smaller urban drainage systems and the formulation of both on-site detentions systems up to large retaining basins and channel/pipe systems.

- Extended retardation basin provisions to allow more complex outlet condition.
- Direct input of Muskingum K and X values where detailed channel data is unavailable.
- It is now possible to allocate portions from multiple gauges to individual sub-catchments based on the polygon analysis
- The analysis engine RAFTS has been upgraded to allow far larger networks and routing periods. This effectively allows runs of multiple years in a single solve.
- Long term continuous Simulation Facilities including Flood frequency results.
- Results have been greatly enhanced to provide truly professional presentation graphics.
- Compare results of multiple storms on a single page

BIOSLURP Pricing

- BIOSLURP $2745

MARS/BIOF&T Pricing

- MARS 2D $1596
- MARS 2D + BIOF&T 2D $2495
- MARS 2D + BIOF&T 3D $3245

XPSTORM Pricing

- XPSTORM Starts at $1990

XPRAFTS Pricing

- XPRAFTS Starts at $2990 (AUD)

XP Packages come in 10, 50, 100, & 200 Links / nodes

Please contact us for additional links and nodes pricing

Stormwater Modeling, Design and Analysis

XPSTORM is a powerful engine and interface for sewer system design and analysis. XPSTORM allows 2D modeling for advanced floodplain analysis, catchment and stormwater analysis. Uses include the design, analysis and modeling for Stormwater Management, Sanitary Sewers, and Floodplain Management.

Key Features

- GIS Integration - Use ODBL compliant databases, import and display ESRI shape files and Mapinfo files
- Scenario Manager - Compare model results for scenarios in both graphics and tables
- Global Storms - Management of data that may be referenced from multiple nodes and links reducing data redundancy and updating changes to many locations
- Dual Drainage - Simulate flow in conduits and in streets when flow is limited by inlet capacity
- DTM - Digital Terrain Builder creates topographic surfaces from x,y,z coordinates, extract manhole elevations, cross section cuts for 1D modeling and stream inverts and 3D renderings
- Animations - Create and view dynamic long section, color coded plan view, and 3D perspective view
- Real Time Control Simulations - Capability control for gates, valves, flow regulators, moveable weirs, and telemetry-controlled pumps
- XP2D Module - Overland flow simulations in both urban and rural scenarios. Ability to export grid-based 2D results, display contours, and view water depths and levels in the 1D domain as well as the 2D flooding area
The Premier Solution for Riverine, Floodplain & Coastal Modeling Since 1991

The Surface-water Modeling System (SMS) is a comprehensive environment for hydrodynamic modeling, transport analysis, and wave modeling. A pre- and post-processor for surface water modeling and design, SMS includes finite-element and finite-difference modeling tools.

Model applications calculate water surface elevations and flow velocities for water flow problems with steady-state or dynamic conditions. Other applications include the modeling of contaminant migration, salinity intrusion, sediment transport, wave energy dispersion, wave properties and storm surge flooding.

Model Design Features
- Construct finite element meshes and finite difference grids of rivers, estuaries, bays, coastal areas, and open ocean
- Robust algorithms have been developed to allow you to handle large data sets (such as bathymetry data collected by LIDAR survey) with speed and accuracy
- Images (TIFF, JPEG) can be geo-referenced, joined, and clipped
- Use TIFF or JPEG images to guide on-screen digitizing and to enhance presentation
- Boundary conditions and material properties from data layers can be assigned to your model using GIS overlay
- Coordinate System Conversions
- Control mesh/grid density and type by assigning properties to simple GIS objects
- Create observation points/cross sections for review and calibration of your model output
- Use Model Steering tools to set up automatic data sharing between models or automatic “Spin-Down” of complex models

Model Visualization Features
- Display model properties and simulation results with vector plots, contour plots, color-shaded contour plots, and time-history plots
- Steady-state and transient solutions can be animated using either particle trace, vector, or contour animation
- Use CAD, Image, or GIS data for background maps
- Render high resolution 3D model plots with shading and contouring
- Interpolate any data set to a grid or mesh for visualization of parameters
- Export of .kmz files for visualization in Google Earth

Supported Models
- FESWMS - 2D hydrodynamic modeling of both super and sub-critical flow, including sediment transport
- RM2A - 2D hydrodynamic modeling of sub-critical flow, including wetting and drying and marsh porosity
- RM4A - for transport of a contaminant, salinity intrusion, or tracking DO and BOD in a 2D system
- TUFLOW - 1D & 2D finite difference flow model for flood and tidal wave propagation. Rapid and stable wetting and drying solutions, super-critical flow and hydraulic structures
- PTM - Particle tracking model
- ADCIRC - 2D barotropic time-dependent long wave hydrodynamic circulation model. Intended for deep ocean, continental shelves, coastal seas, and estuarine systems
- CMS-2D - (formerly M2D) 2D hydrodynamic circulation model intended for analysis of coastal areas
- CMS-Wave - 2D phased-averaged energy balance model for wave diffraction and reflection, refraction wave shoaling, breaking and wave current interaction
- SWAVE - for wave refraction and shoaling, wave breaking, diffraction, wave growth because of wind input, wave-wave interaction and white capping
- CGWAVE - simulate the effects of refraction, diffraction, reflections by bathymetry/structures, dissipation due to friction and breaking, and nonlinear amplitude dispersion
- BOUSS2D - simulate the propagation and transformation of waves based on Boussinesq-type equations
- Generic Model - for linking your in-house model to the powerful SMS model building and visualization tools

MODFLOW SURFACET is a comprehensive 3D finite difference flow and contaminant transport model based on the USGS MODFLOW code. With more enhanced simulation capabilities for handling complex saturated/unsaturated subsurface flow and transport processes, MODFLOW SURFACET is specifically designed to address the many limitations and short-comings of the standard MODFLOW code.

Computational Features
- Handles complete desaturation and resaturation of cells
- Accurate delineation and tracking of water table position, taking into account flow in the unsaturated zone, delayed yield, and vertical flow components
- Automatic and correct redistribution of the total flow rate of a well screened through multiple model layers when the upper cells are pumped dry
- Prevents water table buildup beyond a specified recharge-pounding elevation
- Handling of seepage face boundary conditions
- Capability of modeling unsaturated water or air movement
- Enhanced Newton-Raphson linearization option increases robustness for unconfined and/or unsaturated flow conditions
- Full graphical interface with Groundwater Vistas

Professional Applications
- Simulate multiple water tables or perched water tables
- Simulate surface water infiltration through the vadose zone to the water table
- Simulation of large water table fluctuations causing desaturation/resaturation (drying/wetting) of grid cells
- Simulate soil vapor flow through the unsaturated zone
- Fractured porous media simulations with dual porosity and discrete fracture representations

SMS - Surface-water Modeling Software

3D Gas Flow and Transport in Variably Saturated Porous Media

SVE-3D is a sophisticated soil vapor extraction (SVE) modeling software. SVE-3D can be used to estimate the number of SVE wells required, well spacing, and cleanup time under complex conditions. SVE-3D can handle complicated hydrogeology with spatially distributed or time varying contamination sources.

Model applications calculate water surface elevations and flow velocities for water flow problems with steady-state or dynamic conditions. Other applications include the modeling of contaminant migration, salinity intrusion, sediment transport, wave energy dispersion, wave properties and storm surge flooding.

Supported Models
- FESWMS - 2D hydrodynamic modeling of both super and sub-critical flow, including sediment transport
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- BOUSS2D - simulate the propagation and transformation of waves based on Boussinesq-type equations
- Generic Model - for linking your in-house model to the powerful SMS model building and visualization tools

Professional Applications
- Simulate 3-D gas flow and multi-component transport in variably saturated porous media
- Simulation of heterogeneous and/or anisotropic porous media
- Incorporate effect of groundwater upwelling and reduced air permeability
- Oil-to-gas mass transfer simulated as a kinetic process
- Temporal and spatial variations in the source, its composition, and volatilization fluxes to the air phase are updated continuously
- Multiple wells and spatial variation in extraction/injection rates simulated
- Easy to use Mesh Editor: create 3-D finite element mesh, define soil zones, and assign boundary conditions
- Convection, dispersion, diffusion, and first order biodegradation simulated

SVE-3D

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<tr>
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</table>

Many other packages are available! Please contact us or visit our website for details.

Please contact us or visit our website for details.
SVFlux, SVHeat, and ChemFlux are a family of powerful and stable finite element groundwater modeling software. Characterized by automatic mesh generation, automatic mesh refinement and automatic time-step refinement, each software package uses the powerful FlexPDE™ 2D / 3D solver which is highly automated. With automated solver and CAD front end, reductions in modeling time of over 70% are average!

- AutoCAD™ style CAD input
- Comprehensive user’s, tutorial, and verification manuals
- Model saturated / unsaturated flow
- Automatic mesh generation based on geometry
- Automatic mesh refinement based on any relevant problem variables.
- Automatic time-step refinement for transient problems

- Saturation levels may be imported from the SVFlux software
- Temperature or gradient boundary conditions may specified as constants or free-form equations
- Analyze steady-state thermal conduction problems as well as transient freeze-thaw problems
- User defined soil properties define the latent heat released or absorbed during the ice-water phase change

SVFlux, SVHeat, and ChemFlux are a family of powerful and stable finite element groundwater modeling software. Characterized by automatic mesh generation, automatic mesh refinement and automatic time-step refinement, each software package uses the powerful FlexPDE™ 2D / 3D solver which is highly automated. With automated solver and CAD front end, reductions in modeling time of over 70% are average!

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- Analyze steady-state thermal conduction problems as well as transient freeze-thaw problems
- User defined soil properties define the latent heat released or absorbed during the ice-water phase change

2D & 3D Seepage, Contaminant Transport, and Geothermal Modeling

- Model movement of contaminants in the saturated and unsaturated zone
- Import groundwater gradients from the powerful SVFlux groundwater modeling package
- Mesh refinement may be specified to follow the contaminant front
- Visualize the results of your analysis as contour plots of pressure or head as 2D slices through your problem

Pricing

<table>
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<tr>
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</table>

Please contact us for upgrade and multi-user pricing

2D & 1D Flood and Tide Simulation Model

TUFLOW is a finite difference 2D and 1D flood and tide simulation software. It simulates the hydrodynamics of water bodies using 2D and 1D free-surface flow equations. TUFLOW is developed for determining flow patterns in coastal waters, estuaries, rivers and floodplains where the flow patterns are essentially 2D in nature and cannot or would be awkward to represent using a 1D network model.

- Excellent model stability and convergence - an advantage of the finite-difference formulation
- Rapid wetting and drying - elements of your model can be wetted/dried several times without stability problems
- 1D and 2D representation of hydraulic structures
- Powerful 1D and 2D linking options - represent floodplain features with 1D or 2D and TUFLOW manages the dynamic interaction
- Multiple 2D domains - break the study area into any number of domains, each with its own orientation and cell resolution, that are dynamically linked during simulation
- Automatic flow regime switching over levees and embankments
- 1D and 2D supercritical flow modeling
- Fully integrated into SMS (Surface-water Modeling System)

Applications

- Hurricane/cyclone storm-surge modeling
- Modeling flooding in major rivers through to complex overland and piped urban flows
- Modeling estuarine and coastal hydraulics
- Urban flood mapping
- Evaluation of flood control structures

Pricing

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<td>SMS TUFLOW Pkg.</td>
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Knowledge-based Soil Database System

SoilVision is a complete database solution for the personal or corporate warehousing of geotechnical, geoenvironmental, and soil science soils data. Estimate soil properties or a networked central soils database, including SoilVision’s database of over 6000 soil samples.

Features

- Data warehousing of your corporate soil data on an industry standard format
- Centralize soils data on a server
- Manage geoenvironmental data
- Theoretical estimation of hydraulic soil properties for seepage modeling
- Mathematical fitting of soil property functions
- Statistical module allows calculation of statistical variance of any soil property
- Over 20 theoretical methods for estimating unsaturated soil properties
- Manage borehole and well data
- Export borehole data to ArcView for special visualization
- Export borehole surface data to Surfer for visualization of geological formations
- Over 45 professional reports from which to choose
- High-quality reports including multiple industry-standard reports for sieve analysis (ASTM, AASHTO, USDA), hydrometer analysis, consolidation and compaction testing

Software Compatibility

- Modeling - SVFlux, SEEP/W, FEFLOW, GMS, Visual MODFLOW, SoilCover, Plaxis, SIGMA/W, CRAN/W
- Graphics - Excel, Surfer, TecPlot, Grapher
- GIS - ArcView, Sylvan Maps
- Borehole Logs - WinLog, QuickLog, QuickCross/Fence

Pricing

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<td>SoilVision Oracle/SQL Call</td>
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Please contact us for upgrade and multi-user pricing

Advanced 2D Hydrodynamic Simulation Model

Hydro AS-2D performs 2D modeling of bodies of water. The procedure integrated in Hydro AS-2D is based on the numerical solution of the 2D current equations with Finite-Volume Discretization. In addition to 2D current simulation, Hydro AS-2D can also simulate pollutant and sediment transport.

Features

- Solves hundreds of thousands of elements very quickly
- Calculation accuracy guaranteed by extensive lab tests and real-world applications
- High stability, robustness and exactness for a wide spectrum of hydrodynamic conditions
- Volumetric accuracy of the tidal wave propagation on complicated topography
- Solutions showing flow speed, direction, and flood depth
- The bed changes as a result of sediment erosion and sediment deposition are modeled
- Fully coupled transport and hydrodynamic solver ensures current changes due to sediment scour/deposition are accurately simulated
- Simulate transport of up to five grain dimensions at the same time
- Full support in SMS with the Generic Model Interface

Applications

- River flooding analysis
- Sediment erosion/deposition studies in river channels and floodplains
- Tidal wave propagation
- Pollutant dispersion in a waterway

Pricing

<table>
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<tr>
<th>Software</th>
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Air Dispersion Modeling & Advanced Visualization

AERMOD View is a complete and powerful air dispersion modeling package which seamlessly incorporates the popular U.S. EPA models into one interface: ISCST3, ISC-PRIME, and AERMOD. These models are used extensively to assess pollution concentration and deposition from a wide variety of sources.

Features
- Integrated Graphical User Interface
- Powerful 3D Visualization
- Export to Google™ Earth
- New Project Wizard
- AERMOD Parallel at No Extra Cost
- Professional Printing Templates
- Multi-Chemical Utility
- Terrain Processor with Automatic Downloads
- Complete Meteorological Pre-Processors

AERMOD View

- Single-user - includes one year of support and updates
- SLAB View & SLAB 3D View $990
- PMWIN Upgrade $495
- PMWIN Pro  $1195
- PMWIN Pro & 3D Master $1595

SLAB View

Emergency Release Dense Gas Model

SLAB View is a graphical user interface and complete modeling environment for the U.S. EPA SLAB model for toxic gas accidental release. Used to predict hazardous zone and potential impacts of accidental releases and is ideal for the EPA's Risk Management Plan (RMP) and to analyze emissions from accidental releases of toxic gases.

Features
- Model continuous, finite duration, and instantaneous releases
- Sources: ground-level evaporating pool, elevated horizontal jet, stack or elevated vertical jet, ground-based instantaneous release
- Integrated modeling environment: intuitive data input, model run, and full-featured postprocessing with automatic gridding and contour plotting of results
- An extensive database of toxic materials is included
- Create impressive presentations of your model results

CALRoads View

Traffic Air Dispersion Modeling

CALRoads View combines three popular mobile source air dispersion models, CALINE4, CAL3QHC, and CAL3QHCR, into one seamless integrated graphical interface. This package is used for predicting air pollution concentrations of carbon monoxide (CO), nitrogen dioxide (NO2), particulate matter (PM), and other inert gases produced by motor vehicles.

Model Features
- CALINE4 - Predicts air concentrations of carbon monoxide (CO), nitrogen dioxide (NO2), and suspended particles near roadways
- CAL3QHC - Estimates total air pollutant concentrations, CO or PM, near highways from both moving and idling vehicles
- CAL3QHCR - An enhanced version of CAL3QHC, this model can process up to a year of hourly meteorological data

SALES & SUPPORT

3D Master

3D Visualization & Animation

3D Master is an analysis and presentation tool that provides 3D visualization and animation of a wide range of environmental data and numerical simulation results. 3D Master supports input from all industry standard numerical models including MODFLOW, MT3DMS, RT3D, PHT3D, MOC3D, PMPATH, UCODE and MODPATH and most industry leading MODFLOW GUIs such as Processing MODFLOW Pro, Groundwater Vistas, GMS, Argus ONE and Visual MODFLOW.

- Display simulation results (head, drawdown, multispecies concentration) using color gradient contour maps and 3D isosurfaces
- Display particle tracking data using 3D pathlines from MODPATH, PMPATH, and PATH3D
- Display velocity vector results
- Create multiple slices through the contaminant plume
- Create 3D cutaways to gain information in the core of contaminant plumes
- Create semi-transparent or wire-frame views of all display objects
- Display pumping wells, observation wells, borehole logs.
- Animate time-varying numerical simulation results (concentration, head, drawdown and flow velocity)

Processing MODFLOW Pro

Processing MODFLOW Pro is a complete, affordable simulation system for MODFLOW based modeling. It comes complete with a professional graphical preprocessor and postprocessor for groundwater modeling and seamlessly interfaces with 3D Master for visualization and animation.

Simulation Capabilities
- Includes MODFLOW-88/96/2000, MT3D, MT3DMS, MOC3D, PMPATH, UCODE, and PEST-ASP
- Supports the Streamflow-Routing Package, Horizontal-Flow Barrier Package, Reservoir Package, and Time-Variant Specified Head Package
- Supports various equation solvers
- Generates heterogeneously-distributed parameter fields for stochastic simulation
- Automatic parameter estimation and sensitivity analysis using MODFLOW-2000, PEST-ASP, and UCODE

Model Display
- 3-D visualization and animation using 3D Master
- Interactive display in plan and cross sectional view
- Color-shaded contouring of model properties and simulation results on plan view and cross sections
- Display and animate pathlines and velocity vectors

Features
- Supports models with up to 1,000 stress periods, 200 layers and 250,000 cells in each model layer
- Specify model parameters using Cell-by-Cell, Zones, and Polyline tools
- Rotate and align the model grid to the site base map
- Overlay maps in AutoCAD (.dxf), SURFER (.bln), or bitmap image (.bmp)
- Interpolation of discrete data by means of Inverse Distance Weighting, Kriging, or Triangulation
- Telescopic Mesh Refinement for creating a local scale model from a large scale model
- Graphical grid design tools
FEFLOW® is one of the most sophisticated groundwater modeling software packages available. The primary components of FEFLOW® ensure an efficient process for building the finite element mesh, assigning model properties and boundary conditions, running the simulation, and visualizing the results.

### Practical Applications
- Modeling groundwater drawdown and recovery in mining regions
- Simulate the influence of reservoir construction water table
- Study saltwater intrusion due to the coastal water supply pumping or mine dewatering
- Evaluate remediation and decontamination strategies
- Analyze contaminant transport associated with waste disposal and storage sites
- Assessment of availability of groundwater and geothermal resources
- Estimation and control of strategies for groundwater management
- Design of well-head protection zones
- Studies for environment impact assessment

### Model Visualization Features
- Processing of background maps in raster or vector formats for display and as a template for mesh generation and parameter editing
- Integrated GIS functionality (attribute handling, overlay and join functions) for spatial information and automatic parameter assignment
- Context-sensitive online help
- Real-time visualization of transient flow and transport results
- Access to different time levels and operations between time levels supported in the post-processor
- Model summary and context-driven messages for optimal user orientation

### Analysis Features
- 2-D or 3-D systems (plan view, x-section or axisymmetric)
- Transient or steady-state groundwater flow
- Multiple free surfaces (perched water table)
- Chemical mass and heat transport (also thermohaline)
- Density dependent flow (e.g. saltwater intrusion)
- Unsaturated flow and transport
- Fracture modeling
- Contaminant transport processes include advection, linear and nonlinear dispersion, linear and nonlinear sorption isotherms, and single species reaction kinetics
- Fully integrated automatic calibration based on PEST
- Groundwater/Surface water coupling with MIKE 11
- Fast iterative solvers as well as direct solvers

### Output Display Features
- 3-D visualization of the model domain with color-shaded contours, isolines, 3-D isosurfaces and fence diagrams
- 2-D color-shaded and isoline contouring of scalar data
- 3-D and 2-D particle tracking with isochrone markers
- Display of 3-D cross sections and velocity vectors
- Interactive 3-D rotation and zoom
- Graphical budget analyzer for flow, mass, and heat balances
- Graphical flux analyzer for computing fluxes through cross sections and layers

### GIS-based Interface for Puff Dispersion Modeling
CALPUFF View provides a complete graphical solution for the CALPUFF modeling system; CALPUFF, CALMET, and CALPOST, along with their related pre and post processors.

CALPUFF View supports the EPA approved version 5.8 and the advanced version 6.0 of the CALPUFF system and includes powerful and independent QA tools, stunning report ready results and a wide range of visualization options.

### Features
- Integrated Graphical User Interface
- Powerful 3D Visualization
- Export to Google™ Earth
- Puff Tracking Animations in Google Earth
- Automatic Download of Terrain and Land Use Data
- CALMET Wind Field Visualization
- CALPUFF View Easy-to-Use Wizards
- Complete Meteorological Pre-Processors
- Support for EPA Approved and Beta Models

### Applications
- Toxic pollutant deposition
- Visibility assessments
- Complex terrain
- Secondary pollutant formation
- Long range & overwater transport
- Building downwash

### Pricing
**FEFLOW**
- **FEFLOW 2D**
  - Starting from...
  - $1500 Euros
- **FEFLOW 3D**
  - Starting from...
  - $3500 Euros

**CALPUFF View**
- $3490

**AUSTAL View**
- $4490

**AUSTAL2000**
- 100% support for AUSTAL2000 features
- Checks for project completeness before run
- Superposition of background concentration

### CALPUFF View Easy-to-Use Wizards
- Complete Meteorological Pre-Processors
- CALMET Wind Field Visualization
- CALPUFF Easy-to-Use Wizards
- Support for EPA Approved and Beta Models

### AUSTAL View
- AUSTAL View is an ergonomic and intuitive user interface for the official German Federal Environmental Agency air dispersion model - AUSTAL2000.
- AUSTAL View uses a Lagrangian particle tracking air dispersion model that contains its own diagnostic wind field model. Thus, the model takes into account the influence of topography on the wind field and therefore on the dispersion.

### Features
- Interactive graphical input of sources and receptor grids
- True 3D visualization
- Emission time series generator
- Effective control of time dependent parameters
- Extensive map support
- Multiple sources and receptors
- Hourly or statistical met data
- Import AUSTAL2000 files
- 100% support for AUSTAL2000 features
- Graph of concentration time series at monitor points
- Display model results as contours, shaded cells, and posting
- Graph of concentration time series at monitor points
- Powerful 3D visualization of input and output data
- Terrain visualization in 2D and 3D
- Report ready output: source parameters, emissions, and results

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**Pricing**

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<th>Pricing</th>
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<tr>
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<td>- Single-user - includes one year of support and updates</td>
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<td>FEFLOW 3D</td>
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*Please visit our website or call for details on recommended packages and pricing.

---

[FEFLOW](http://www.scientificsoftwaregroup.com)

Toll Free: 866 620-9214 or 801 208-3011

[www.scientificsoftwaregroup.com](http://www.scientificsoftwaregroup.com)
3D Contouring, Gridding & Surface Mapping

Surfer is a contouring and 3D surface mapping program that quickly and easily converts your data into outstanding contour, surface, wireframe, vector, image, shaded relief, and post maps.

Visualization & Plotting

Surfer gives you full control over all mapping parameters to produce dazzling displays of your data. Plot types include:

- Contour Maps
- 3D Surface Maps
- Vector Maps
- Image Maps
- Shaded Relief Maps
- Post Maps
- Base Maps
- Map Overlays
- 3D Wireframe Maps

Data Input Formats

Surfer includes a full-featured worksheet for creating, editing, opening, and saving data files.

- Import DAT, TXT, SLK, XLS, WKx, WRx, CSV or BLN formats
- Calculate statistics and perform data transformations
- Sort and save data sheets

Interpolating & Gridding

Gridding options allow you to interpolate your data onto a user-specified grid to produce accurate maps and images from your XYZ data.

- Up to 1 billion XYZ data points can be used
- Cross-validate your data and judge suitability of particular interpolation methods
- Methods include Inverse Distance, Kriging, Minimum Curvature, Polynomial Regression, Triangulation, Nearest Neighbor, Shepard's Method, Radial Basis Functions, Natural Neighbor
- Generate reports of gridding statistics and parameters to help support your methodology

Pricing

- Surfer $655

New!

BP RISC is used for performing fate and transport modeling and human health risk assessments for contaminated sites. A unique feature of BP RISC 4 is its ability to perform a backward risk calculation as well as the conventional forward risk calculation. The backward risk calculation in BP RISC 4 refers to calculating a cleanup level for an input value of risk. Fate and transport models are available in BP RISC 4 to estimate receptor point concentrations in groundwater and indoor and outdoor air.

Features

- A customizable chemical database with 82 chemicals
- An Excel spreadsheet based on the RBCA algorithms that can be used to replicate the tiered RBCA process
- The ability to determine risk-based TPH (total petroleum hydrocarbon) targets using the TPH fractions
- The ability to calculate additive risk due to multiple pathways, compounds and receptors
- A Monte Carlo capability for probabilistic risk evaluation
- Fate and transport models that distinguish between presence and absence of phase-separated product (NAPL) in the source zone

What's New in Version 4?

- Irrigation pathways, i.e. water used for gardening but not for indoor usage
- Vegetables grown in contaminated soil
- Two new vapor models, where the vapors are allowed to biodegrade during transport through the unsaturated zone
- Models for surface water and sediment contamination from impacted groundwater and direct comparison with relevant national standards for these media
- The use of groundwater MCLs (maximum concentration levels) and surface water concentrations in addition to acceptable risk levels as the criteria for back-calculate clean-up targets
- The ability to calculate a site-specific target level (SSTL) for a TPH mixture using the site-specific measured concentrations of the TPH fractions detected in the soil

Pricing

- BP RISC $695

Toll Free: 866 620-9214 or 801 208-3011 www.scientificsoftwaregroup.com
3D Groundwater Flow & Transport Modeling!

Visual MODFLOW’s three-dimensional groundwater flow and contaminant transport modeling capabilities are trusted and used by more groundwater professionals than any other modeling software in the world thanks to several seamlessly integrated numeric engines with an easy-to-use graphical interface.

Professional Applications
- Predict impacts from saltwater intrusion from over pumping in coastal regions
- Delineate well capture zones for municipal drinking water supplies
- Design and optimize pumping well locations for dewatering projects
- Evaluate groundwater remediation systems (pump & treat, funnel & gate, etc.)
- Simulate natural attenuation of contaminated groundwater
- Estimate the reductive dechlorination of TCE, PCE and DCE in groundwater
- Determine contaminant fate and exposure pathways for risk assessment

Advanced Simulation Capabilities
- MODFLOW-2000, the world standard for groundwater flow simulations
- MODFLOW-SURFACT*, a robust flow model that extends the physical modeling capabilities of MODFLOW to include flow through the vadose zone
- MODPATH, for forward and reverse particle tracking
- MGO, for optimizing pumping well and injection well rates
- RT3D, for reactive transport simulations
- MT3DMS, for multi-species transport simulations
- MT3D99*, for complex, reactive transport simulations
- Advanced Predictive Analysis using PEST-ASP
- Zone Budget for sub-regional water budget calculations
- SEAWAT 2000, for variable-density flow analysis
- Integrated GMG and SAMG fast solver options

Model Design & Graphical Features
- Interactive display of plan, cross sectional, and 3D views
- Import (DXF), (BMP), (SHP), (GIS), (PNG) for your site base maps
- Import MODFLOW-2000, MODFLOW-96, and MODFLOW-88 data sets
- Mapping of Property Zones from Polygon ShapeFiles
- Interpolate layer elevation data from XYZ ASCII files (TXT), Access Database (MDB), Excel (XLS), and Point Shapefiles (SHP)
- Import layer surface elevations from ASCII (X,Y,Z) Surfer (GRD), USGS DEM (DEM), ESRI (GRD), MapInfo (.GRD)
- Import transient time schedules for boundary conditions/observation points
- Graphical grid design tools and automatic grid smoothing for improved model convergence
- Grid Cell Elevation Editor for on-the-fly modifications to cell elevations
- Render high resolution 3D volumetric plumes
- Animate sequential degradation of contaminant plumes
- Define 3D cut-away regions
- Create contour/color maps of model properties and simulation results

Add-on PACKAGES:
- Visual MODFLOW Pro + SAMG, MT3D99
- Visual MODFLOW Premium $4890
- Visual MODFLOW Pro + SAMG, MT3D99
- ModFLOW-SURFACT $1885
- 3D Builder $2290

Voxel is the NEW way to visualize your 3D data. It imports data from a plethora of sources, and creates stunning graphics that let you creatively visualize the cryptic relationships in your data set.

Voxel combines a multitude of data sources into a brilliant display of data points, DEM height field surfaces, data isosurfaces, contour maps and oblique image slices at any angle, and much more!
The RIVERMorph® software is a database oriented software system geared towards channel measurement data collection/storage, reference reach data collection/storage, river assessment/monitoring and engineering applications including natural channel design. As the field of river restoration is ever changing, it is the goal that the development of RIVERMorph® will be flexible enough to meet future needs.

Features
- State-of-the-art graphical user interface that is user friendly and allows quick access to stored data
- Cross section analysis
- Profile analysis
- Channel material analysis
- Froude number classification
- Flank channel stability assessment
- Natural channel design calculations
- Regional curves
- Curve creation and manipulation
- Gage analysis
- Resistance and Regime equations
- Sediment transport calculations including the PowerSed Sediment Transport Model

Pocket RIVERMorph
- Saves time
- View and validate your data in the field
- Seamless upload to RIVERMorph

Groundwater Vistas (GV) is a unique groundwater modeling environment for Microsoft Windows that couples a powerful model design system with comprehensive graphical analysis tools. GV provides more functionality at a lower cost than any competing product!

Key Features
Groundwater Vistas provides an extensive suite of tools for model construction, calibration, optimization, and analysis of uncertainty.
- Import & Export data using a variety of file formats including shapefiles, DXF, Surfer, spreadsheets, text
- Calibration tools including PEST-ASP, MODAC, UCODE, MODFLOW2000, Automated Sensitivity Analysis
- Uncertainty Analysis tools including Monte Carlo versions of MODFLOW, MODPATH, & MT3DMS and PEST Uncertainty Analyzer
- Optimization tools including MGO, SOMOS, MODOFDC, and Brute Force
- Telescopic mesh refinement (TMR) for creating refined submodels
- 3D Visualization interfaces to EVS, EarthVision, Tecplot, ModelViewer, 3D Master, & IBM OpenDX
- Support of all versions of MODFLOW, MODPATH, and MT3D
- Remote Model Launch™ (purchased separately) runs models over a network
- Free Viewer Version - Let your client see your model!
- Advanced Technical Support: We support our software and help with technical and conceptual issues as well
- Import existing MODFLOW 2000 datasets for the SFR1, SFR2, HUF, ETS, DRT and LAK3 packages
- New Layout for creating custom report forms
- New Model Reports for calibration, mass balance, dry cell locations, etc.
- Caching and disk data storage to allow for large transient runs
- Custom contours for each data type
- Enhanced boundary condition editing
- GIS and VM import with no editing
- Unsaturated Zone Flow (UZF) Package support
- New Analytic Elements and selection options
- Many More!

AQUASEA for Windows software is a powerful and easy to use finite element program to solve flow in rivers, tidal flow problems in estuaries and coastal areas, lake circulation and problems involving transport of mass heat and suspended sediments.

The flow model can simulate water level variations and flows in response to various forcing functions in lakes, estuaries, bays and coastal areas.
- The transport-dispersion model simulates the spreading of a substance by fluid flow and dispersion processes
- Pollutants supported: conservative or non-conservative, inorganic or organic, salt, heat, suspended sediment, dissolved oxygen, inorganic phosphorus, nitrogen
- Variable depth, bottom friction, wind speed, wind direction, dispersion coefficients and mixing depth
- Multiple wetting and drying cycles supported
- Real time varying data can be entered from actual observed records. Time varying wind and tidal boundary conditions as well as time varying sources accepted
- Model boundaries can be expanded or contracted and nodes added or removed. Sub-models can be created easily within any part of the original model

Models Supported
Groundwater Vistas is a model-independent graphical design system for:
- MODFLOW 2000/2005
- MODPATH (steady-state or transient)
- MT3DMS
- SEAWAT
- PEST
- UCODE
- MODFLOW*
- MODFLOW-SURFACT* (see pg. 9)
- SWIFT*
- MT3D*99*
- PATH*4
* model must be purchased separately

Graphical Features
- Displays both plan & cross sectional views
- Shows full color contour maps of elevation, groundwater head, contaminant concentrations, etc.
- Plots capture zones and pathlines
- Displays any digital map as a background image
- Export results to SURFER, Slicer, DXF, BMP, WMF, Earth Vision, EVS, Tecplot, ArcView and ASCII files
- New GW3D - a 3D visualization tool now available for 3D plotting and animation

AQUASEA
2D Surface Water Flow and Contaminant Transport

Applications
- Lake circulation
- Tidal flow in estuaries and coastal areas
- Sediment transport
- Heat transport from nuclear power plants
- Flow in tidal inlets (navigation problems)
- Location of wastewater outlets (bacterial decay)
- Flow through narrow openings (bridges)

AQUASEA  $1795

Pocket AQUASEA
- Compact and portable
- View and validate your data in the field
- Get a full view of your model

Pricing
- AQUASEA $1795

3D Groundwater Modeling for Windows!

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Groundwater Vistas
A single software product that provides a comprehensive groundwater modeling system for:
- MODFLOW, MODPATH, MT3D, 3D tools, more...
- Advanced GV $1945
- Standard Features plus Stochastic Modeling tools...
- Standard GV $1245
- Advanced Features plus GW3D, Remote Launch...
- Enterprise GV $2395

RIVERMorph
The #1 Stream Restoration Software

Scientific Software Group
3D Groundwater Modeling for Windows!

Pricing
- Standard GV $1245
- Advanced GV $1945
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3D Groundwater Modeling for Windows!
The Groundwater Modeling System (GMS) is a comprehensive groundwater modeling environment! Used by thousands of people at U.S. Government agencies, private firms, and universities, it is a proven and effective modeling tool. GMS provides tools for every phase of a groundwater simulation including site characterization, model development, calibration, post-processing, and visualization.

GMS supports both finite-difference and finite-element models in 2D and 3D including MODFLOW, MODPATH, MT3DMS/RT3D, SEAM3D, FEMWATER, PEST, MODAEM, SEEP2D, and UTEXAS.

Model Building Features
- Use GIS objects and associated data to conceptualize your modeling problem - then let GMS generate a grid/mesh and assign appropriate conditions
- GIS Module allows direct linkage to ArcGIS 8.x or higher
- Use TIFF, JPEG, or MrSID images to guide on-screen digitizing and to enhance presentation
- Multi-panel borehole cross section editor to generate complex 3D stratigraphy models - for presentation of site data or as a basis for model building
- Support for SAMG multigrid solver for MODFLOW
- The “horizons” approach allows you to create complex stratigraphy and assign it to a MODFLOW grid (using the HUF package) or a FEMWATER mesh
- Control mesh/grid density and type by assigning properties to simple GIS objects
- Import DXF and DWG data from CAD to create model objects or to enhance presentations

Model Visualization Features
- Display model properties and simulation results with vector plots, contour plots, color-shaded contour plots
- Use CAD, Image, or GIS data for background maps
- Render high resolution 3D model plots with shading and contouring
- Interpolate any data set to a grid or mesh for visualization of parameters
- Animate model solutions, transient data, or rotating models - save to AVI files for presentation
- Export files for visualization in Google Earth

Advanced Calibration and Stochastic Modeling
Automated calibration and stochastic modeling methods allow you to calibrate your model and perform risk assessment faster than ever before. PEST and T-PROGS methods are fully integrated with GMS.

Supported Models
- 2D Flow Modeling MODAEM - fast analytical element modeling of flow fields using sources/sinks and boundary conditions SEEP2D - Finite-element seepage analysis perfect for dams, levees, cutoff trenches, etc.
- UTEXAS Comprehensive slope stability model to calculate critical failure surface and factor of safety. Use with SEEP2D for dam and levee analysis
- 3D Flow Modeling MODFLOW 2000 - the industry standard for finite difference flow modeling (saturated zone) FEMWATER - finite-element flow modeling (unsaturated and saturated zones, salinity intrusion)
- Solute Transport Modeling MODPATH, MT3DMS, FEMWATER - particle tracking and solute transport modeling RT3D, SEAM3D - advanced reactive transport modeling
- Unsaturated Zone Flow & Transport Modeling FEMWATER - fully 3D unsaturated/saturated flow and transport modeling

Pressure/Temperature Smart Sensors with Data Logging
The AquiStar® PT2X submersible smart sensor represents the latest in state-of-the-art level measurement technology. Building on years of successful experience, this industry standard digital RS485 interface device offers improved noise immunity, thermal performance and transient protection. In addition, this device stores over 130,000 records of pressure, temperature and time data, and operates with low power. The PT2X comes with INW’s easy-to-use Aqua4Plus software!

Aqua4Palm is an easy-to-use Palm® based control software for the PT2X Smart Sensor. Leave your expensive laptop in the office - just slip a Palm® in your pocket!

The AquiStar® PT2X-BV is designed to measure barometric and vacuum pressure relative to absolute pressure, along with temperature and time.

Wireless Data Collection System
WaveData™ Wireless Data Collection systems combine patented AquiStar® Smart Sensors and MaxStream® wireless modems, to create powerful systems for remote data collection and real time monitoring. Available with solar panels and rechargeable batteries for long-term use in remote areas. Operating on the 900 MHz and 2.4 GHz radio bands, these radio frequency modems are license free. Communication range varies from 300 feet to 5 miles, depending on line-of-sight obstructions, height and type of antennas, and additional repeaters.

Pressure and Environmental Sensors
The Tempillon T-3 is a submersible water quality sensor that provides accurate and stable water quality measurements. All sensors come equipped with temperature, one interchangeable specific ion electrode (bromide or chloride), and either a pH or redox module. Its signal conditioning provides two amplified mV outputs and one thermometer output. Easy factory recalibration and servicing.

The PS-9 Series submersible pressure and level sensors represent the latest in state-of-the-art measurement technology. Building on years of successful experience, INW offers sensors with 4-20 mA, 0-5 V, and mV outputs to connect to your meter, data logger or control device.

Pumping & Sampling System
The REEL E-Z is a compact system designed to provide a convenient way to store and operate the Grundfos® Redi-Flo® pump. When used with INW’s HAPPY HOSE® (cable, tubing and safety cable bonded together) the system easily installs the pump in the well, locks it in place and allows for easy take up and cleaning without cable entanglement. The REEL E-Z is also available with HAPPY CABLE! (combination electrical conductors and safety cable) for customers who want to use the system with various types of tubing. The REEL E-Z system is ideal for one person sampling and purging applications.

Wireless Data Collection System
The Mini REEL E-Z Water Level Meter has been ranked #1 for accuracy, durability and ease of use since 1995. The tapes meet or exceed federal specification US GGG-T-106E (U.S.A.) or EEC CLASS II (Europe) for a guaranteed accuracy of .008%. A flat spring steel core ensures tapes hang perfectly straight in large and small diameter wells. This provides unparalleled accuracy when compared to the flat white tapes, where kinks in the tape introduce slight errors, in addition to the displacement of water changing the static level.

The Mini REEL E-Z Oil/Water Interface Meter measures the depth and thickness of Floating (LNAFLPS), sinking (DNAPLs) hydrocarbons and water in monitoring wells as small as 1/2” ID (13.5 MM) using an optical sensor for industry accuracy. Interface meters are available with 50-2000 foot tapes with probe sizes not available from any other manufacturer. All probes are pressure proof and leak proof using a unique triple-seal design.

Pricing

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<td>- Live pressure monitoring devices, etc.</td>
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Many other packages are available! Please contact us or visit our website for details.

Please call or visit our website for equipment pricing and options.
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**Features**

- **Arc Hydro Groundwater (AHGW) Tools:**
  - **Groundwater Analyst**
  - **MODFLOW Analyst**
  - **Subsurface Analyst**
- **Pricing**
  - **Groundwater Analyst**
    - Manage Well Data
      - Use text import wizard
      - Create maps to visualize well data using raster data sets
      - Display flow vectors from flow direction generator
      - Create water level and water quality maps
      - Perform Time Series Statistics
        - Show average readings
        - Show readings from a range of time
        - Query time series data to generate maps
      - Use the built-in spatial analyst tools to create raster images
  - **MODFLOW Analyst**
    - Manage MODFLOW models within ArcGIS
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