EPA Region 2 EQuIS Workshop EQuIS Reporting Tools June 20 & 21

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EarthSoft, Inc.

Exporting EQuIS Data to EnviroInsite

- From EQuIS Professional select Reports menu
- Select EnviroInsite Data Export
- Select Groups = MonitoringWells_Shallow
- Sample Type = N
- Primary > Matrix = WG
- Result > Analyte > Individual
 - 127-18-4 TETRACHLOROETHYLENE(PCE)
 - 79-01-6 TRICHLOROETHYLENE (TCE)
- Fields > Check > Use dt_well_segment to define screen interval
- Elevation Units = ft
- Select Go 📄



Add CAD File and Post Wells

Add a CAD File - Optional

- Insert a CAD file > Browse
- Select MapUpdated.dwg
- Select CAD file in lat-long

Plot Wells on map

- Select Plot > Wells
 - Labels Tab > Height = 15
 - Select Optimize Location (Optional)
 - Options Tab > Radius = 6

EarthS@ft

CAD file in lat-long

Coordinates

Add Aerial Photo

- Select Insert menu
- Select WMS Layer Layer Layer



Display Layers with Wells On Top

- From the Plot Control window
 - Select the 'WMS Map 1' layer



- Hold left mouse button and slide the layer up to the top
- When you see the double arrow in the top position release the mouse button.
 - Place the aerial photo under the Wells





Classed Post – Review Hot Spots TETRACHLOROETHYLENE (PCE)

- Select Plot menu > Classed Post
- Query Tab > select > PCE
- Media = WG, Fraction = T
- Update in Data Summary
- Date Range = 5/1/2010 5/31/2010

Enter Start Values & OK

• Interval Tab > Set Intervals



	Start Value	EndValue	Col Radus
ĺ	5	50	3.42
	50	200	3.99
	203	1000	4.56
	1000	4000	5.13
	4000	25001	5.70
	25001	30000	6.27

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Classed Post – Review Hot Spots TRICHLOROETHYLENE (TCE)

- Select Plot menu > Classed Post
- Query Tab > select > TCE
- Media = WG, Fraction = T
- Update in Data Summary
- Date Range = 5/1/2010 5/31/2010 / v
- Interval Tab > Set Intervals



Start Value	EndValue	Col Radus
5	50	3.42
50	200	3.99
200	500	4.56
500	2000	5.13
2000	8335	5.70
8335	10000	6.27



Enter Start Values & OK



Pie Charts

- Select Plot Pie Charts
- Query Tab
 - Select TCE & PCE
 - Select Right Arrow to move to Selected box





Pie Charts Continued

- Format Tab
 - Select Color (Optional)
 - Select OK

		Z
Media	Fraction	Color
WG	Т	
WG	Т	
	Media WG WG	Media Fraction WG T WG T



Analyte Contour

Select Plot > Contour



- Query Tab
 - Select PCE
 - Select Media = WG, Fraction = T
 - Update in Data Summary
 - Date Range = 5/1/2010 5/31/2010
- Intervals Tab
 - Select Set Intervals
 - Set Defaults
 - Enter Start Values

	Start Value	EndValue	Col	Radus
	5	50		3.42
	50	200		3.99
7	203	1000		4.56
	1000	4000		513
	4000	25001		5.70
	25001	30000		6.27



Contour Continued

- Select Format Tab
 - % Transparency = 15
- Select Interpolation Tab
 - Select Inverse Distance
 - Select OK
- Change Interpolation
 - Double click on contouring layer in Plot Control
 - Select Interpolation Tab
 - Select Method = Kriging
 - Options Tab > Transform Data > OK



When Should I Use Transform Data?

Transform Data – Should be applied for data where concentrations are changing in an order of magnitude. Perform contouring on log transform instead of original values



Data Tables

• Select Plot > Tables



- Option Tab, select TCE, use right arrow to move to the Selected box
- Select Media = WG, Fraction = T
- Option Tab select Cross Tab
- Select OK





Water Level Graphs

- Select Plot > Graphs
- \boxtimes
- Select > waterlevel > OK
- Line Format Tab
 - Select Color = blue
 - Select OK

Line	
Style	
Pattern Scale	1
Color	▼



EnviroInsite Contouring Interpolation Types

- Interpolation Types
 - Inverse Distance weight dependent on distance
 - Kriging linear estimation (Ordinary Kriging) good for clustered data.
 - Natural Neighbor if you want to contour to the fringes
 - Triangulation no weighting, good for closely spaced data and irregularly spaced grid



EnviroInsite Additional Resources for Contouring Interpolation

www.bisolutions.us/A-Brief-Introduction-to-Spatial-Interpolation.php

