

Leveraging Data Driven Pages (DDP) in Environmental Consulting

optimizing efficiency in map series production

Topics of Discussion

1. Introduction to Environmental Consulting
2. Introduction to DDP
3. DPP Applications in Environmental Consulting
4. Location Driven Set up & Tips
5. Attribute Driven Set up & Tips
6. Map Books with Tables
7. Questions

Introduction to Environmental Consulting

- Interdisciplinary
 - Spatial Data and Maps are often the common language to sharing information among teams, clients, and public
- Document Focused
 - Goal is often to document conditions, report findings, prepare/review permit applications, and ensure compliance
 - Varied audiences for environmental documents
 - Provide detailed information in text, tables, and diagrams
 - Maps can tell the story of 10s or 100s pages of text in a single page (or map series!)
 - Clearly communicate detailed information to experts and laypersons

Introduction to DDP

- DDP is the Mapbook tool in Esri's ArcMap
 - Spatial Data Driven – is controlled by a layer
 - Enables a series of maps to be created in a single .mxd
 - Reduces the level of effort required to create and revise a map series
 - Insures all map pages will maintain consistent symbology and map elements

DPP Applications in Environmental Consulting

Biology

Permitting

Grid Map Books

Strip Map Book

Geo-Environmental

Site Specific
Map Book

Compliance

Results Map Book

DPP Applications in Environmental Consulting

- Showing multiple sites with the same overlays
 - Example: creating detailed maps of multiple project sites
 - Location Driven – same layers shown for each repair site
 - Using Project Boundary or a Mapbook grid to drive

DPP Applications in Environmental Consulting

- Showing detailed information for a large site by breaking it up into multiple maps
 - Example: showing vegetation cover for a ~20mi long proposed utility corridor
 - Location Driven – same content, locations changes moving along the alignment
 - Strip Map – use strip map index to drive

DPP Applications in Environmental Consulting

- Showing the same site with many different overlays
 - Example: sample results for a single site with many different results for the same locations
 - Attribute Driven – same location shown, but DDP cycles through themes

Location Driven Set up & Tips

- Set a driver layer
 - Can use DDP Toolbox to create Indexes or use existing layer
- Create an Index inset
- Calculate and label adjacent pages
- Use Dynamic Text and Legend Settings
- Use Page Definitions



Location Driven Set up & Tips - Example

Attribute Driven Set up & Tips

- Set a driver layer
 - Will be many records in the same location
 - Cycles through themes (content) maintaining view
- Use Dynamic Text and Legend Settings
- Use Page Definitions



Attribute Driven Set up & Tips - Example

Mapbooks with Tables

- Gives a native GIS feel with attributes on map
- No good dynamic way to have tables be data driven in ArcMap
 - Current work around is using Excel and Adobe Acrobat
 - Excel open attribute table and set filters
 - Adobe create a Stamp to add tables to PDFs

Adobe

Excel

Mapbooks with Tables - Example



Questions?

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