

# Sanitary Sewer Modeling & Management Part 5: Data Validation & Best Practices

The logo for XP solutions features the letters 'XP' in a large, bold, dark blue font. To the right of 'XP', the word 'solutions' is written in a smaller, light blue, lowercase sans-serif font. A thick, dark blue curved line sweeps across the background behind the text.

**XP** solutions

EXPERT SOFTWARE FOR A SUSTAINABLE ENVIRONMENT



## Speaker Bio

- Adam Rose, PE, GISP
- 14+ years modeling experience
- Sanitary Product Manager
- Former life: consultancy and regulatory agency



## Series Information



- Comment! We can incorporate into later webinars  
[ just not in this series ]

- Introduction: <http://xps.link/ss1>
- Wet Weather: <http://xps.link/ss2>
- Calibration: <http://xps.link/ss3>
- Pumps: <http://xps.link/ss4>
  
- Major Comments:
  - Dual pumps
  - This is great
  - This is terrible
  - This is not stormwater





# Today's Agenda

- DETAILED EXAMPLE
  - Build (1<sup>st</sup> Webinar) – 10 min
  - Load (2<sup>nd</sup> Webinar) – 15 min
  - Pumps (4<sup>th</sup> Webinar) – 10 min
  - Calibration (3<sup>rd</sup> Webinar) – 10 min
  - Results (all webinars) – 5 min
- Best practices (10 min)
  - Data Validation
  - Model Navigation
  - Model Storage/Archiving

# XP

## Demonstration

You can fool all the people some of the time, and some of the people all the time, but you cannot fool all the people all the time.

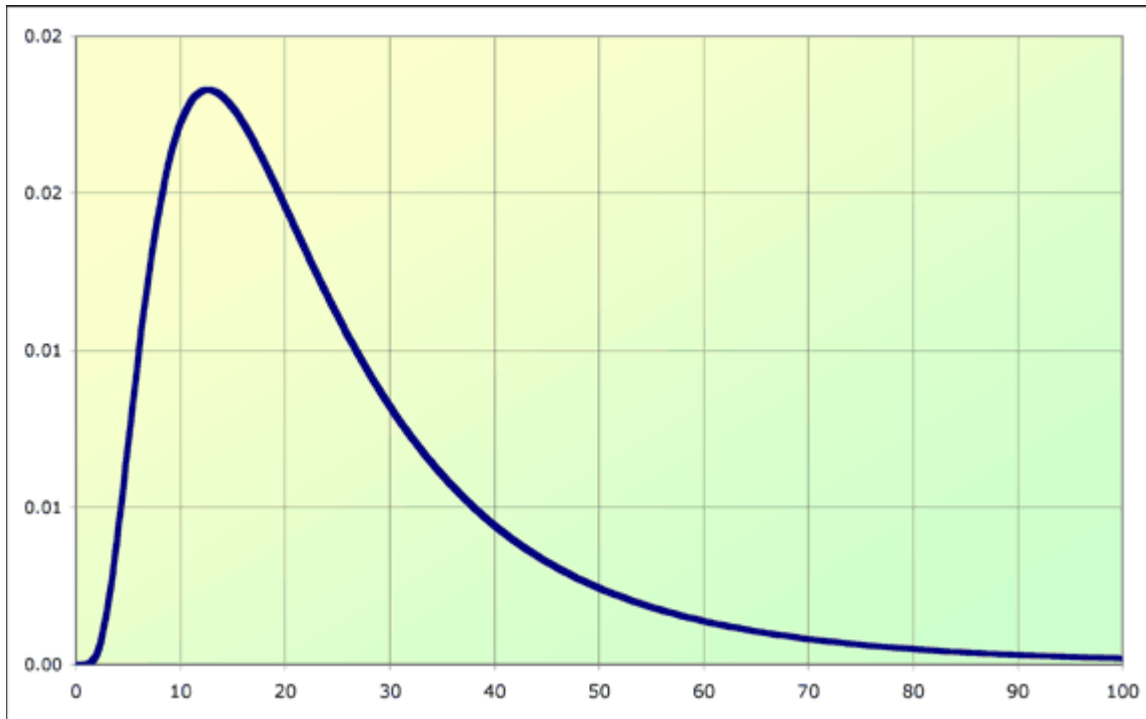
-Abe Lincoln

Some people will love this demo – it will be exactly what they want. Some will say it is OK. Some will hate it. Every time.

-Adam Rose

# XP

## Demonstration

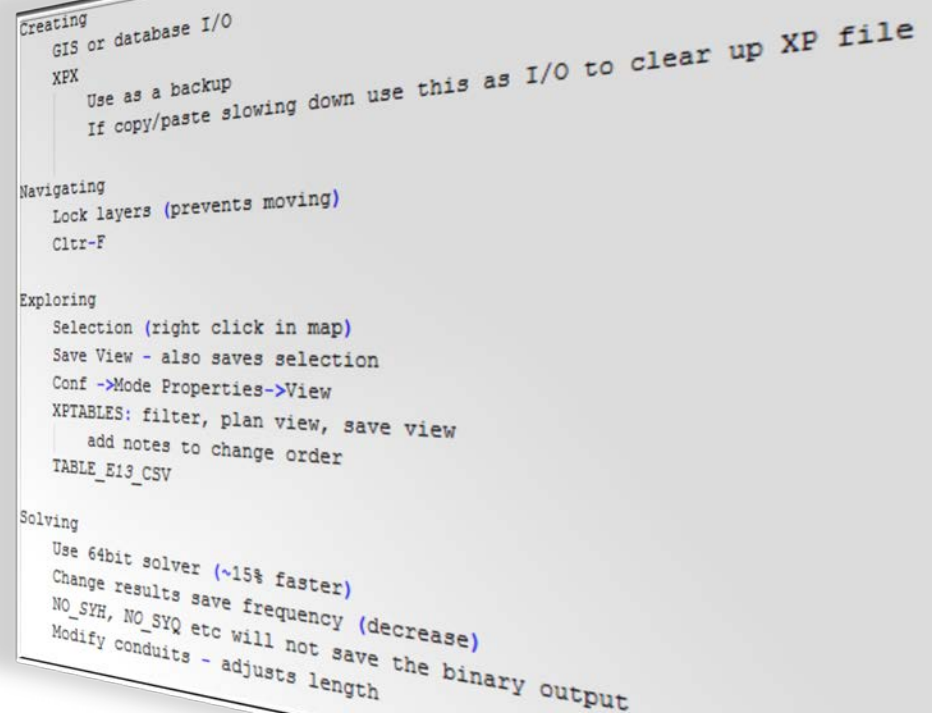


- Types
  - Input Data [type, format, consistency]
  - Model assumptions/consequences [boundaries, etc.]
  - Output Data [reasonableness, appropriateness]
- Strategies
  - Check your schema
  - Check your logs
  - Check your reason



- The big list of good ideas, available on the Support Portal for current users.

<http://xps.link/bestpracss>



```
Creating
GIS or database I/O
XPX
  Use as a backup
  If copy/paste slowing down use this as I/O to clear up XP file

Navigating
Lock layers (prevents moving)
Ctrl-F

Exploring
Selection (right click in map)
Save View - also saves selection
Conf ->Mode Properties->View
XPTABLES: filter, plan view, save view
  add notes to change order
TABLE_E13_CSV

Solving
Use 64bit solver (~15% faster)
Change results save frequency (decrease)
NO_SYH, NO_SYQ etc will not save the binary output
Modify conduits - adjusts length
```



# Data Storage/Archiving

- Format
  - Flat, database, file, other?
- Workflows
  - Spatial? Directionality? Frequency?
- Metadata
  - Platform independent, organization dependent best practices



# Summary

- Thank you for your attendance during the series
- Need more help? Consider training!
- XPSWMM :: knowledge base articles, support portal
- Don't forget to check our site for future webinars

# XP

Questions? Comments?

## XP solutions

Thank you for joining this presentation,

# Grab Bag of Sanitary!

by

Adam Rose PE, GISP

[Adam.Rose@xpsolutions.com](mailto:Adam.Rose@xpsolutions.com)

### Contact XP Solutions

Americas:	+1 888 554 5022	<a href="mailto:amsales@xpsolutions.com">amsales@xpsolutions.com</a>
Asia Pacific:	+61 7 3310 2302	<a href="mailto:ausales@xpsolutions.com">ausales@xpsolutions.com</a>
EMEA:	+44 0 1635 582555	<a href="mailto:uksales@xpsolutions.com">uksales@xpsolutions.com</a>

[www.xpsolutions.com](http://www.xpsolutions.com)

