Ben Ouellette GIS Analyst Portland Water District Portland, Maine



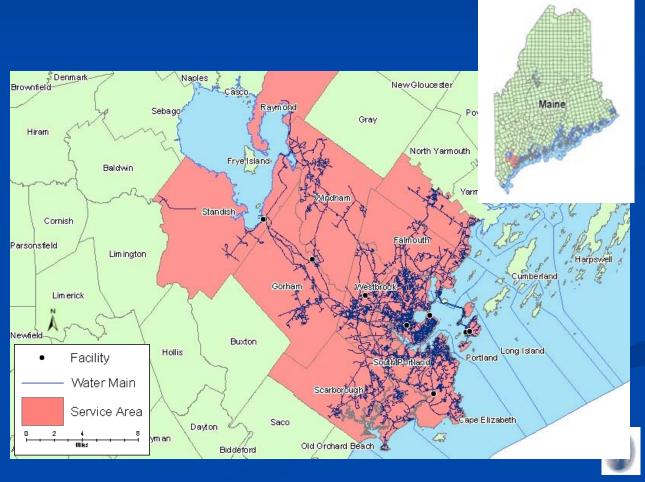


- 1. PWD Introduction
- 2. Work Order Management
- 3. Project Planning
- 4. ArcIMS in the Field



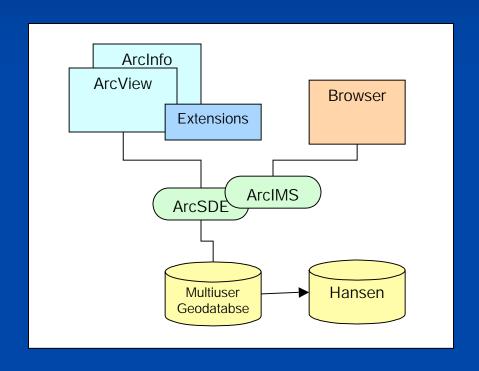


PWD serves 200,000 people in the Greater Portland area. Every day over 25 million gallons of water flow through 975 miles of pipe, and over 21 million gallons of sewage is processed at PWD's five sewage treatment plants.





Current Configuration



PWD's GIS is "attribute light". Only the data to create the linkages between GIS and the asset management system (Hansen) is maintained.





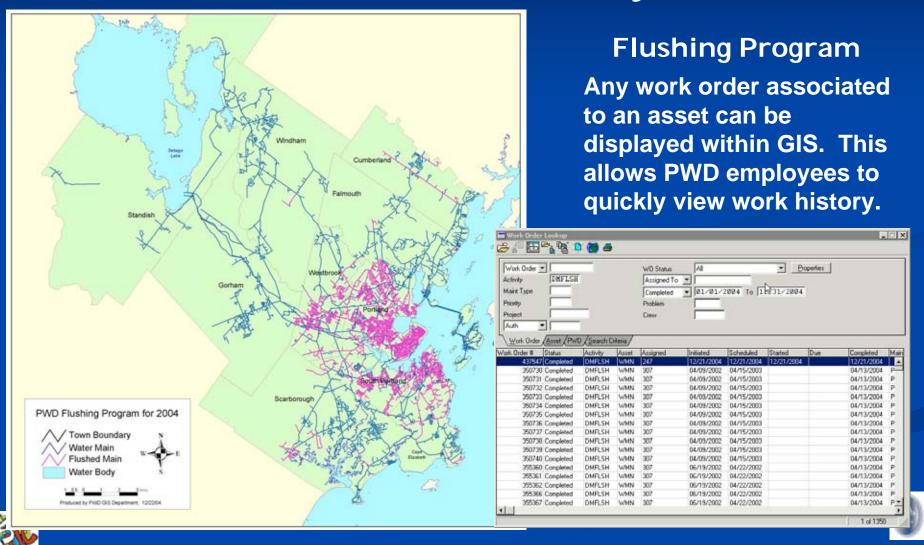
Work Order Management

- 1. Visualize Work Order History
 - a. Flushing Program
 - b. Permalog Leak Detector Placement
- 2. Manage Work Flow
 - a. Valve Turning Program

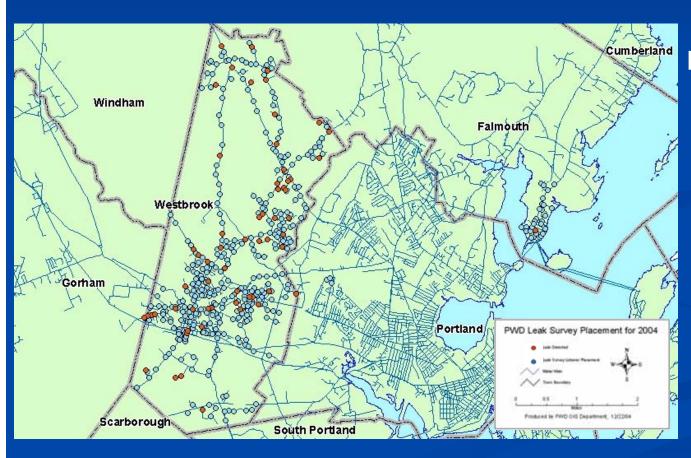




Visualize Work Order History



Visualize Work Order History



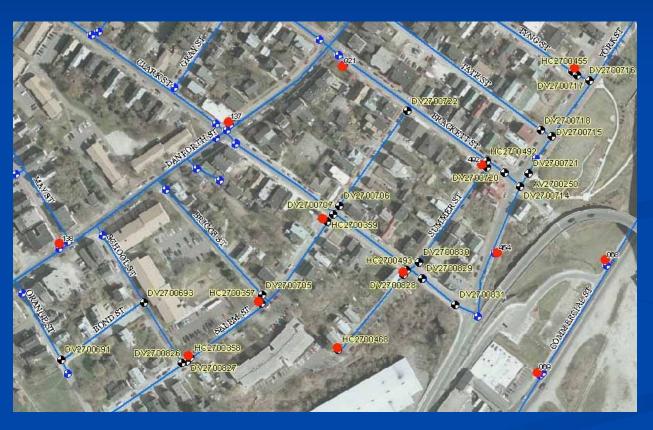
Permalog Leak
Detector Placement

Detected leaks pinpoint damaged infrastructure





Manage Work Flow



Valve Turning Program

Maps for field crews showing the location of scheduled work can be created quickly and easily.





Project Planning

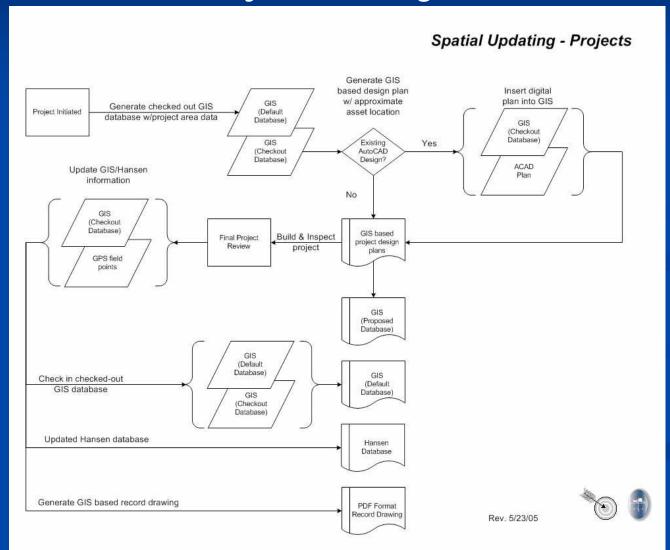
Using disconnected editing to expedite the addition of new

data and to create as builts





Project Planning







Project Planning



GIS As Built.

		- 3	Street: Mackworth Ln		
(Janes)	2.00 of sentenine			Pipe Honufacturieri	- Orfor
firefer	8.4"			Plan Taper	IX - No her
Ledge Statester	3+85 - 8+25				
STATION	FITTING	MANUFACTURER	FITTING TYPE	NOTES	ASSET 10 A
0+00	DOWN TO	APC	MS+PL	12" Main 7-il" Deep	
	Tapping Sleeve				
0+02	IF TV	AFC	H2+FL ::	(IT Nut Extension	DV2300427
	Tapping Valve				
0+05	45° Bend	Arges	M2 x H3	Looking Left	7.1
0+08	I' Air Valve	MCD	3/4°CC + 1" MIP	1	AV2500077
	and 3/4" angle vi	First vol. 1" PESP inside			
2+55	Hydranic	American	86281 - 6'-6"	HCV Pleasure + 11'-6"	H9/2000201
	8" x 6" Servel Te	e - Star, E' AFC Gr - F	C. 10-8' of F III Goffin	Pipe	HC2300201
3+20	11.25° Send	Acipco	M2 x M2	Looking Right	The serve
5+29	Hybert	American	96251 - 6-6"	HCV Pleasure + 11-2"	HY2300000
	If x 6' Swind Te	e - Star, 6' A/C Gr -)	C. 10 of at it is getting	Pipe	
5+39	If 14' Redust	Signa	HO + HO		R02301858
5150	72.5° bend	Sone	MD v MD	Looking Left	
S+25	2'60	Arc	MIP + MIP	F x 2" 10 Cap - Star	802300082



Asset Management and Planning Dept.

Drawn By: TEW Project Caropinton

Date: 4/9/04

Mackworth Lane
Cumberland

Field Book: 23 Mackworth Ln 03

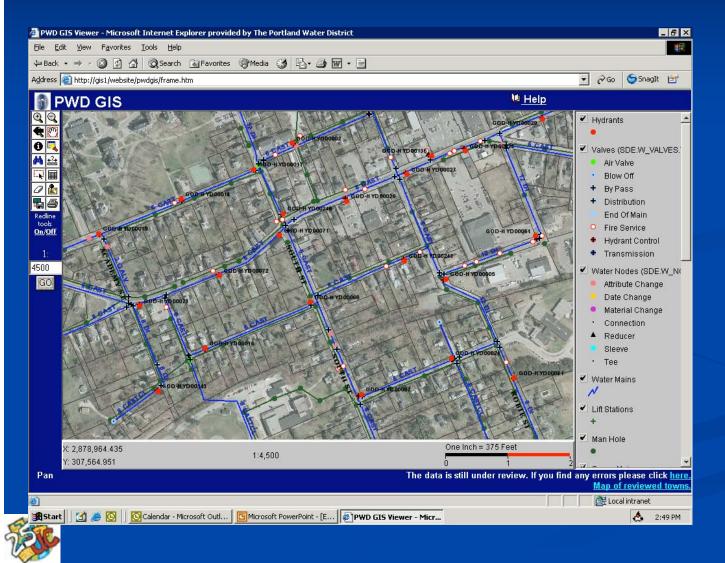
RECORD DRAWING Cad Plan: 23 Rockwood-Condo-Yes

Sheet No. 1 of 1





ArcIMS in the Field



PWD field crews access live information from Hansen and GIS by connecting to an ArcIMS website using Citrix.



Questions?

Thank you for your attention.



