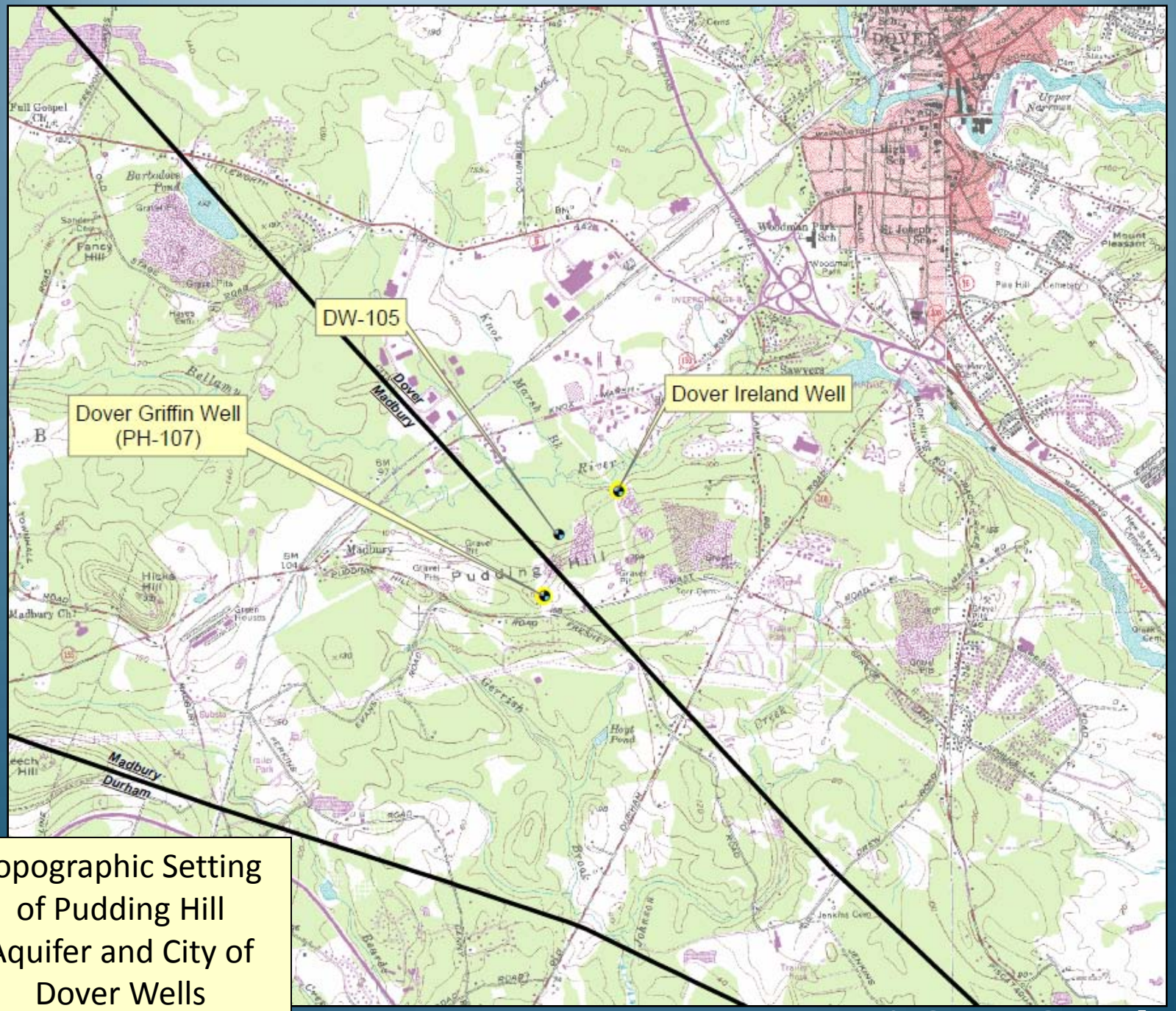
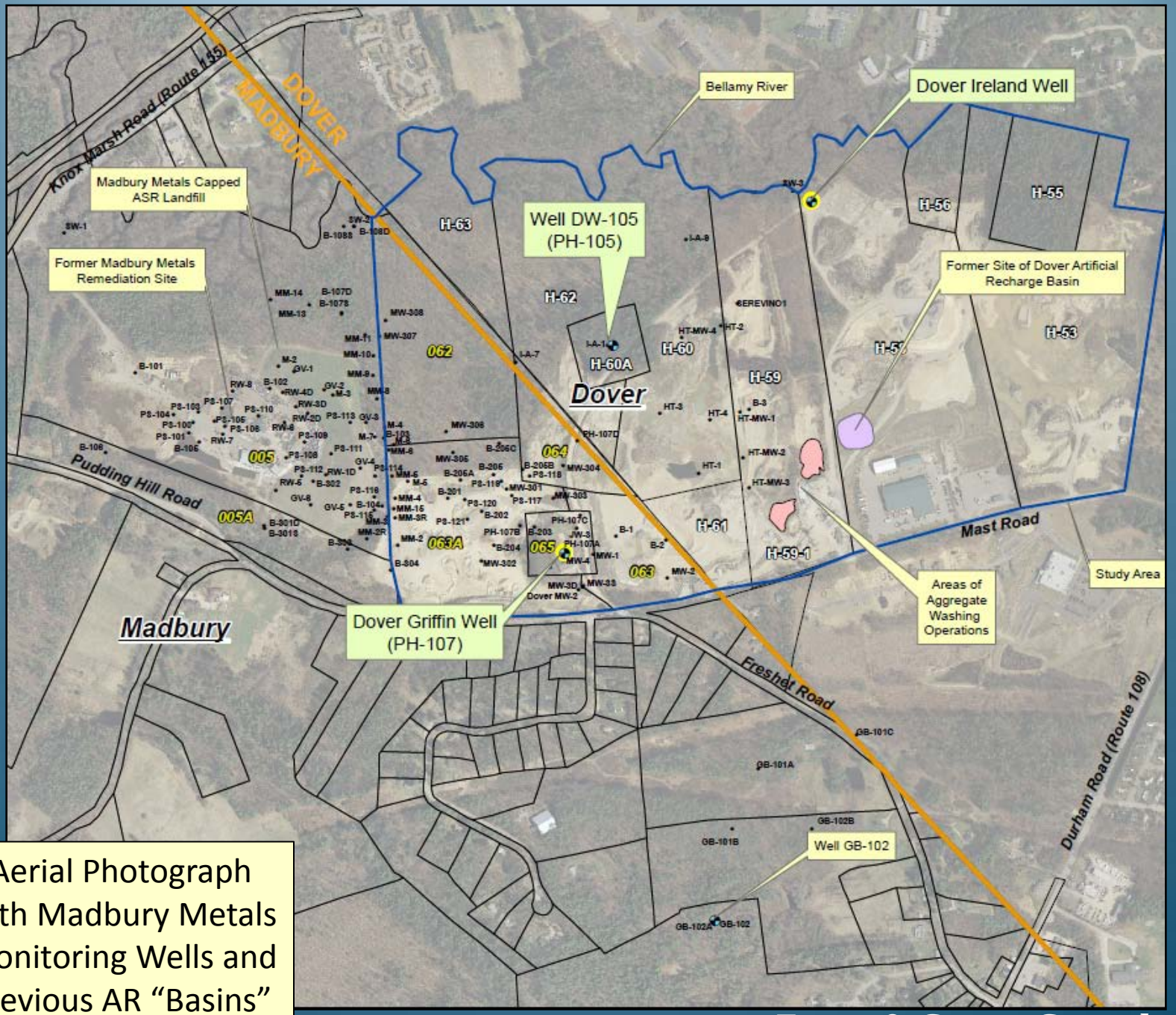
Ireland and Griffin Well Field Pudding Hill Aquifer Assessment Phase I

Emery & Garrett Groundwater



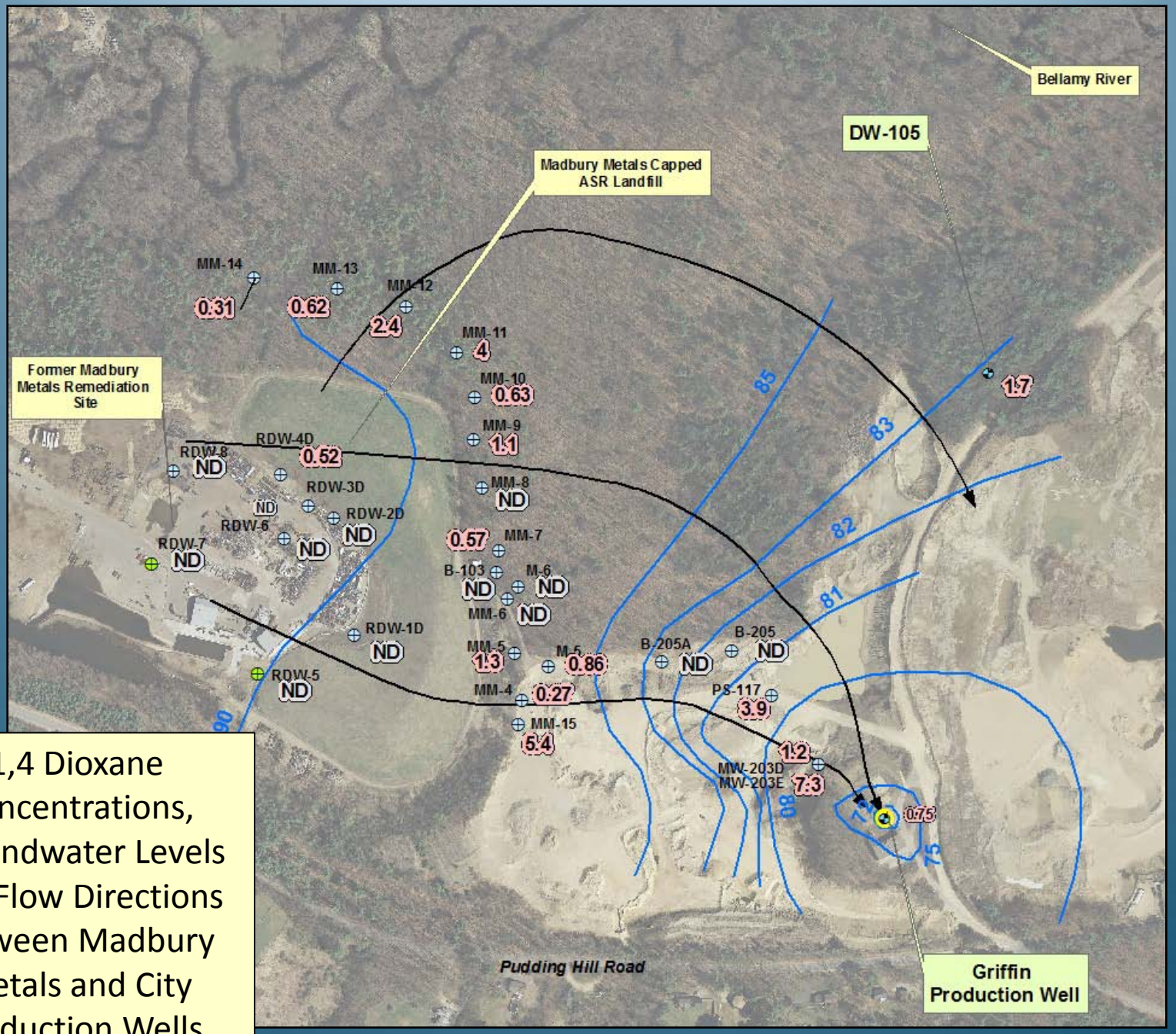
Topographic Setting of Pudding Hill Aquifer and City of Dover Wells

Emery & Garrett Groundwater



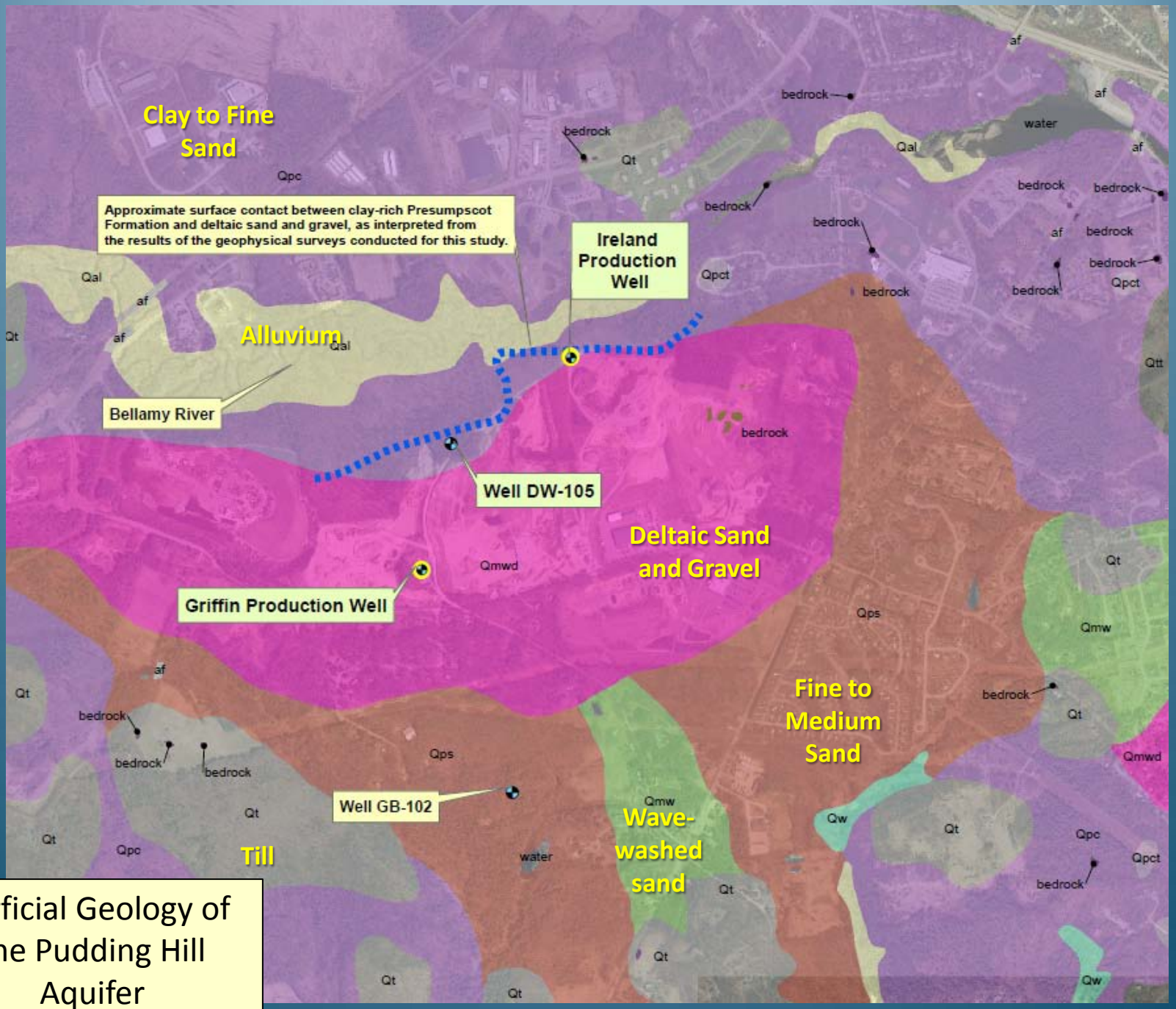
Aerial Photograph with Madbury Metals Monitoring Wells and Previous AR "Basins"

Emery & Garrett Groundwater



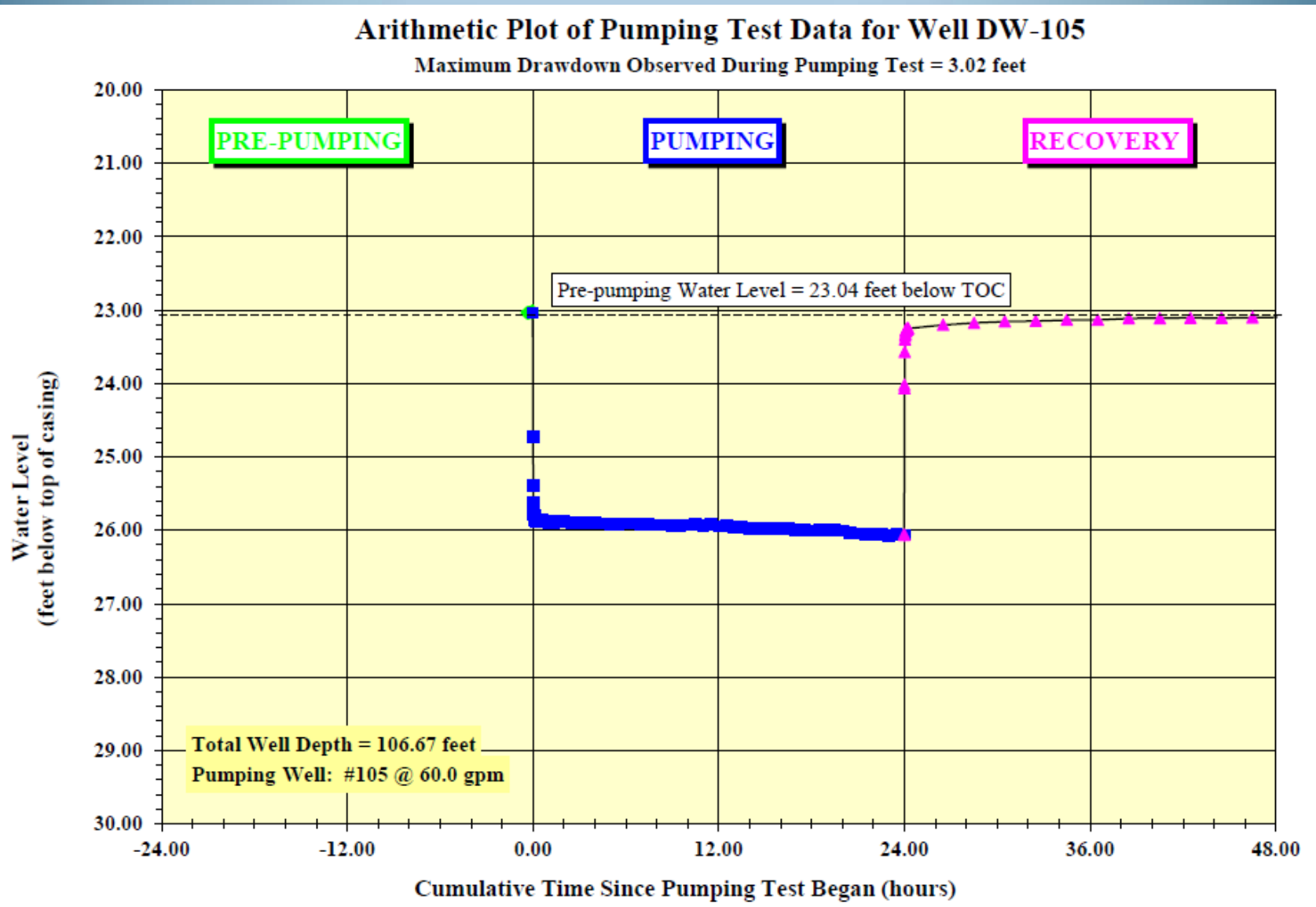
1,4 Dioxane Concentrations, Groundwater Levels and Flow Directions between Madbury Metals and City Production Wells

Emery & Garrett Groundwater



Surficial Geology of the Pudding Hill Aquifer

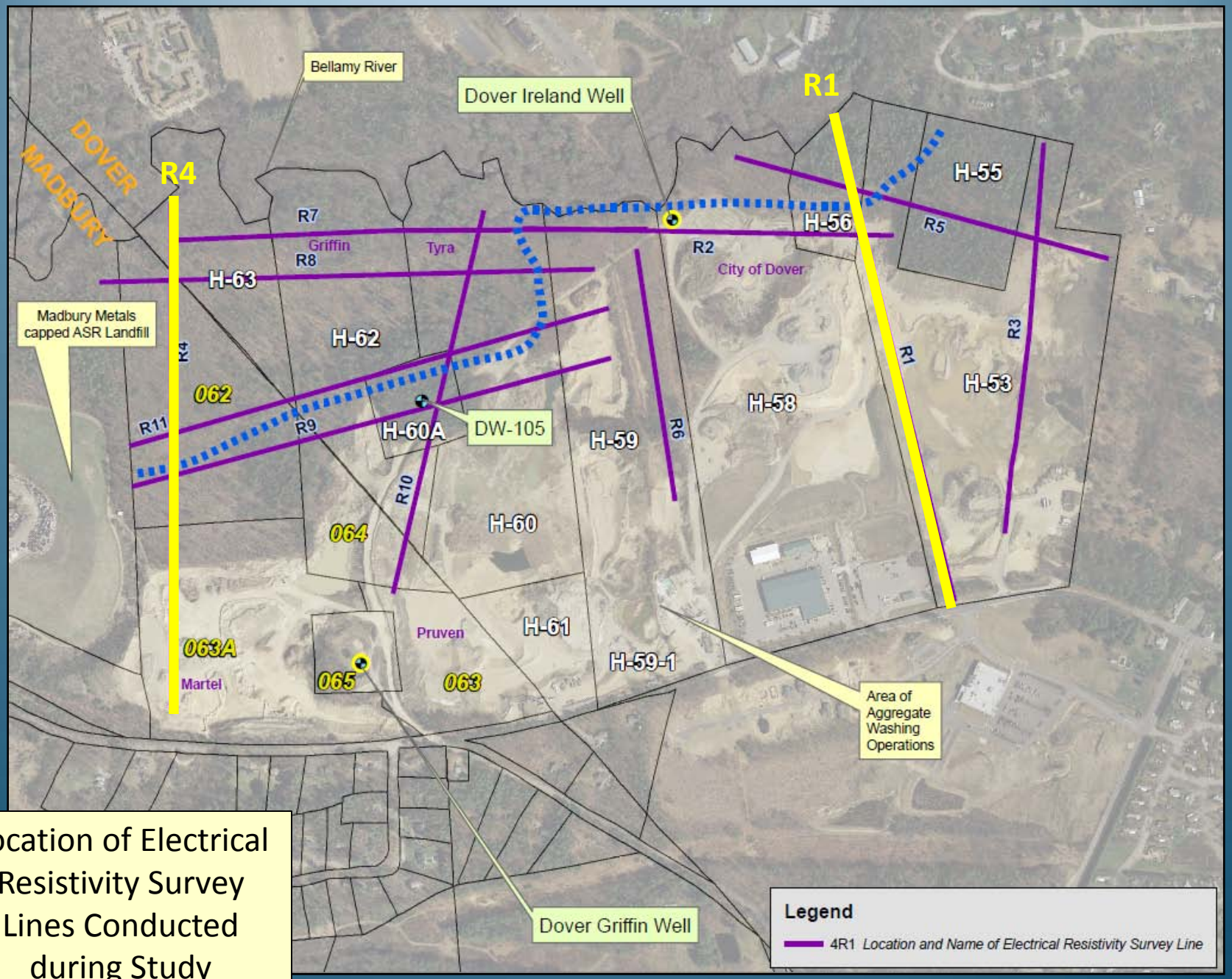
Emery & Garrett Groundwater



Plot of Water Level versus Time for February 6 to February 8, 2013

Pudding Hill Aquifer Assessment

Dover, New Hampshire



Location of Electrical Resistivity Survey Lines Conducted during Study

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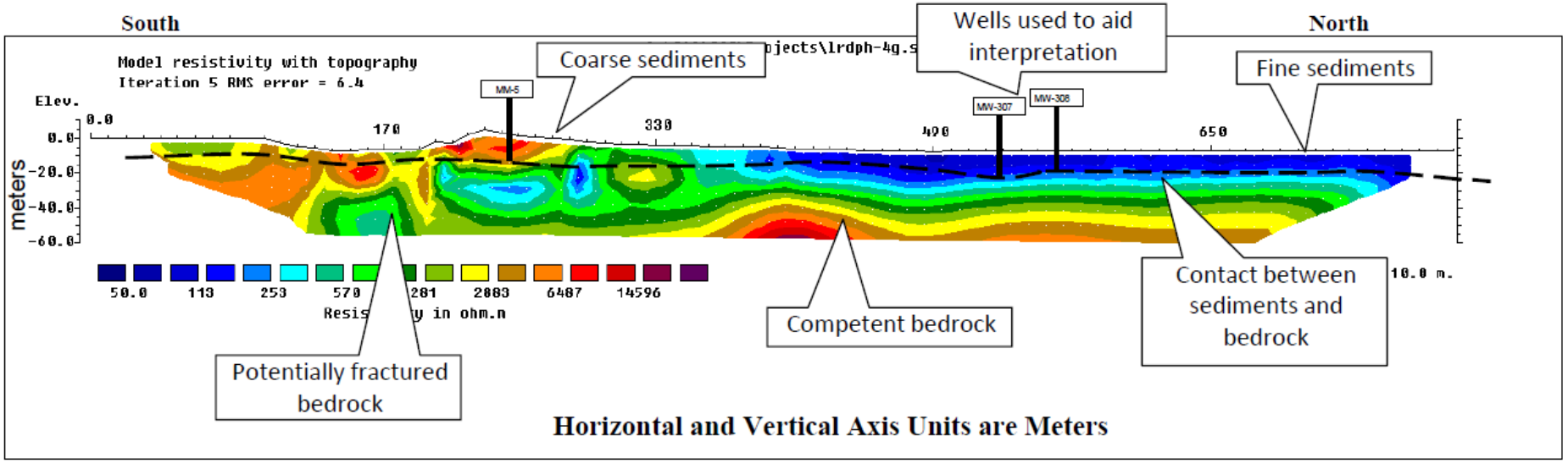
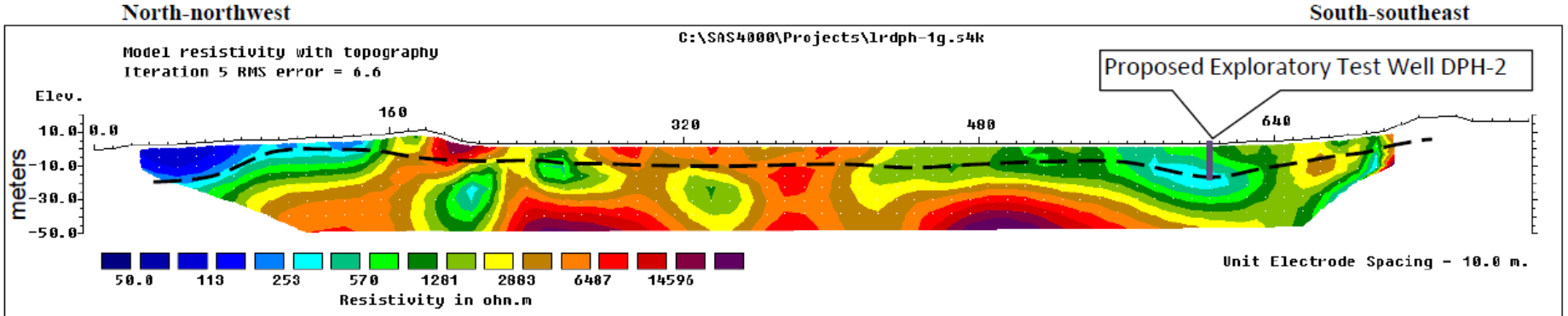
Example Interpretation of an ABEM Electrical Resistivity Model

Electrical Resistivity Survey Line R4 - Gradient Method
Dover - Pudding Hill Aquifer
Dover, New Hampshire



Electrical Resistivity Survey Line R1 - Gradient Method
Dover - Pudding Hill Aquifer
Dover, New Hampshire

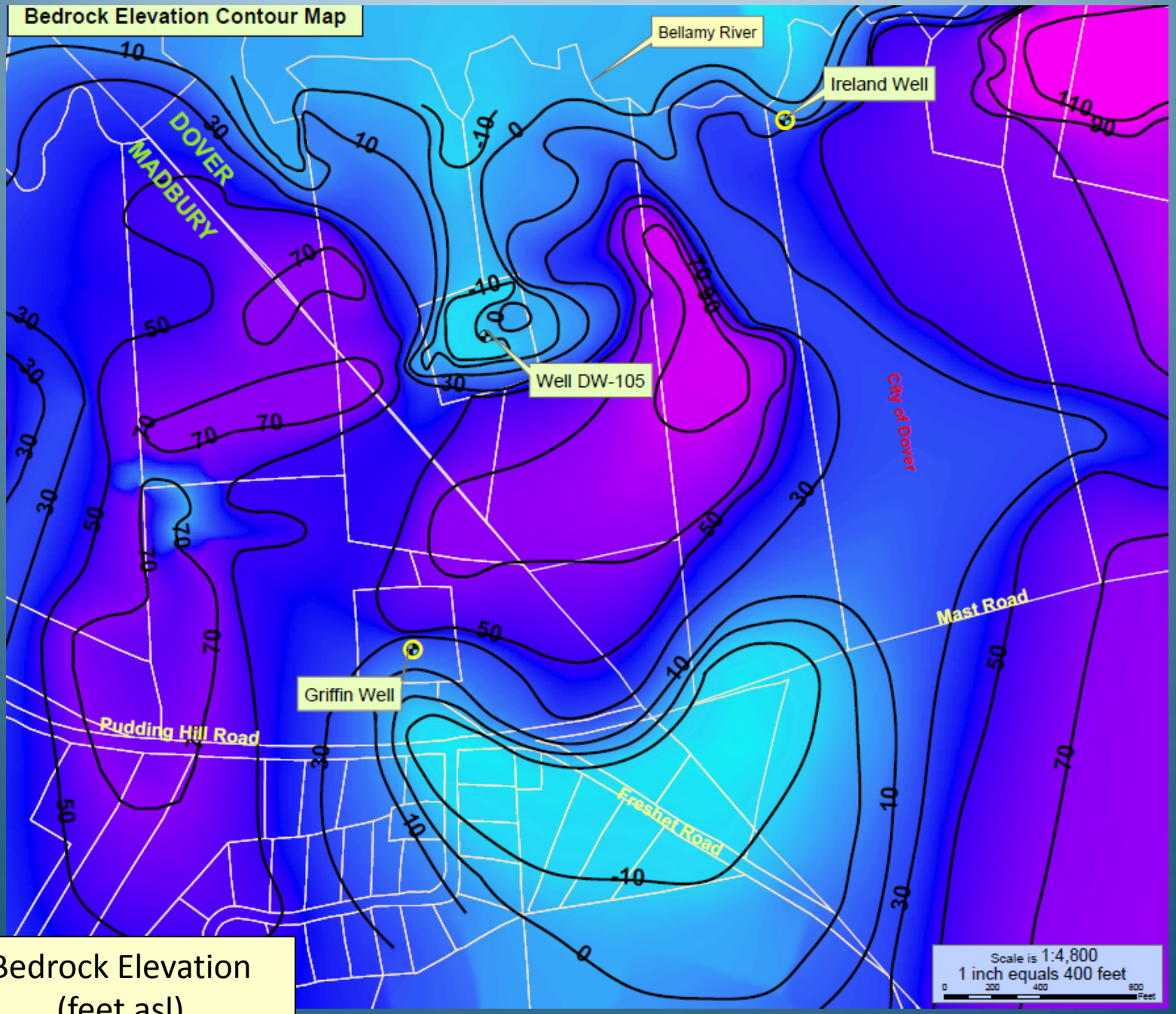


Horizontal and Vertical Axis Units are Meters

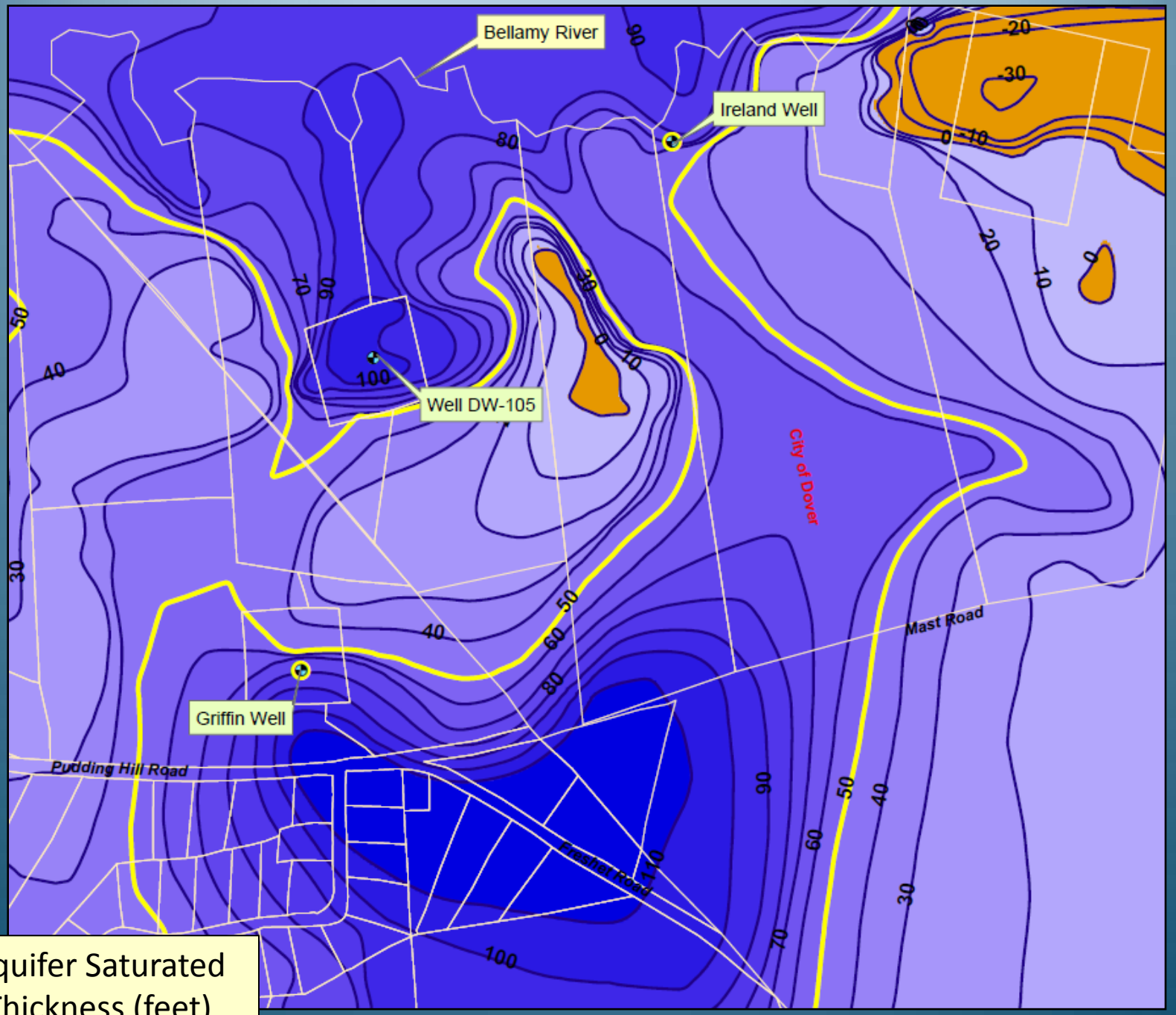
Survey Type:	Gradient
Electrode Spacing (m.):	10
Vertical Exaggeration:	1
Line orientation (geographic degrees):	167

Raw Data Quality Error Percent		
Minimum	Maximum	Average
0.000	38.661892	0.1337195

Number of Data Points		
Surveyed	After Modeling	Number Removed
899	837	62



Bedrock Elevation
(feet asl)



Aquifer Saturated Thickness (feet)

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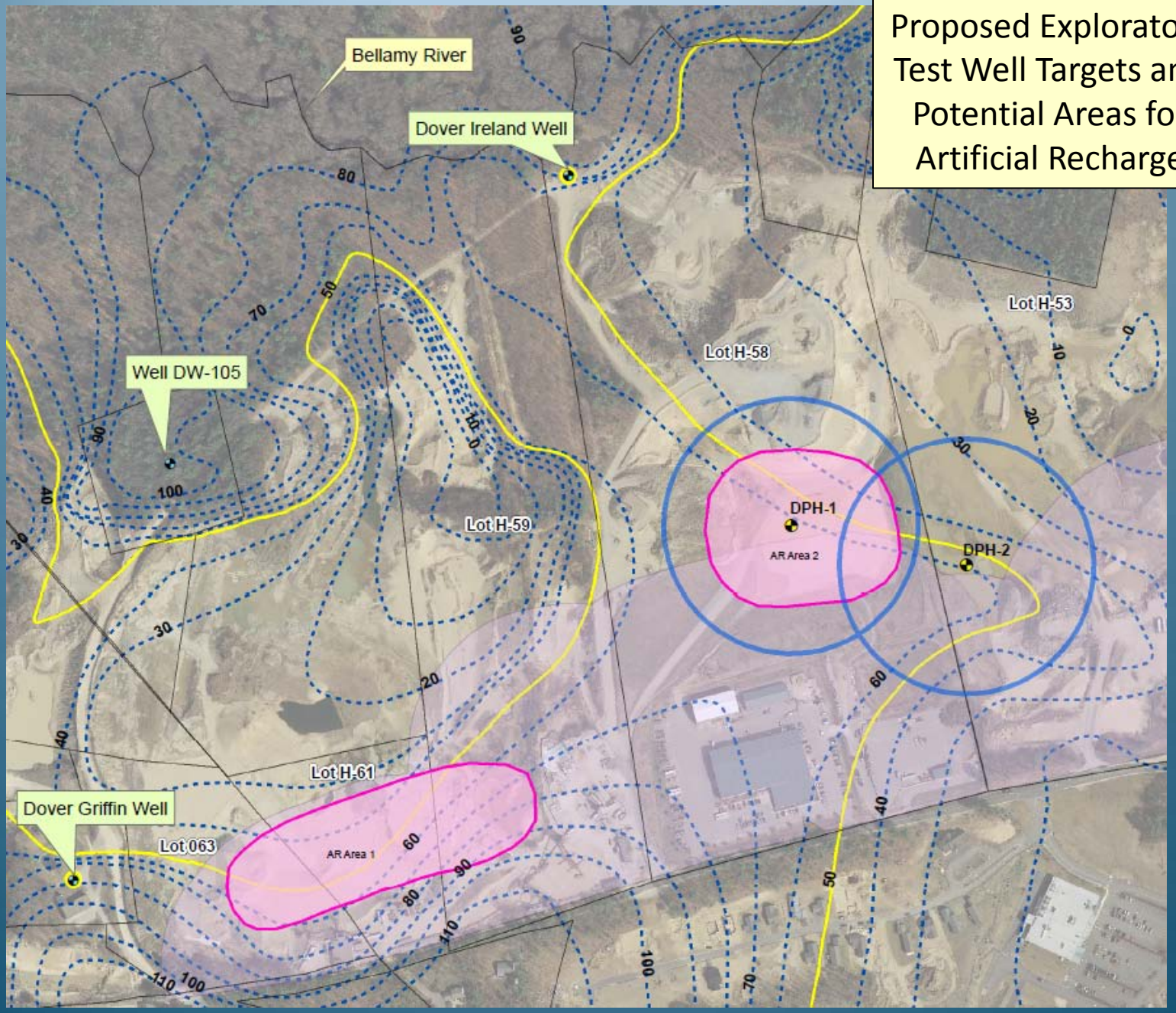
Proposed Exploratory Test Well Targets and Potential Areas for Artificial Recharge



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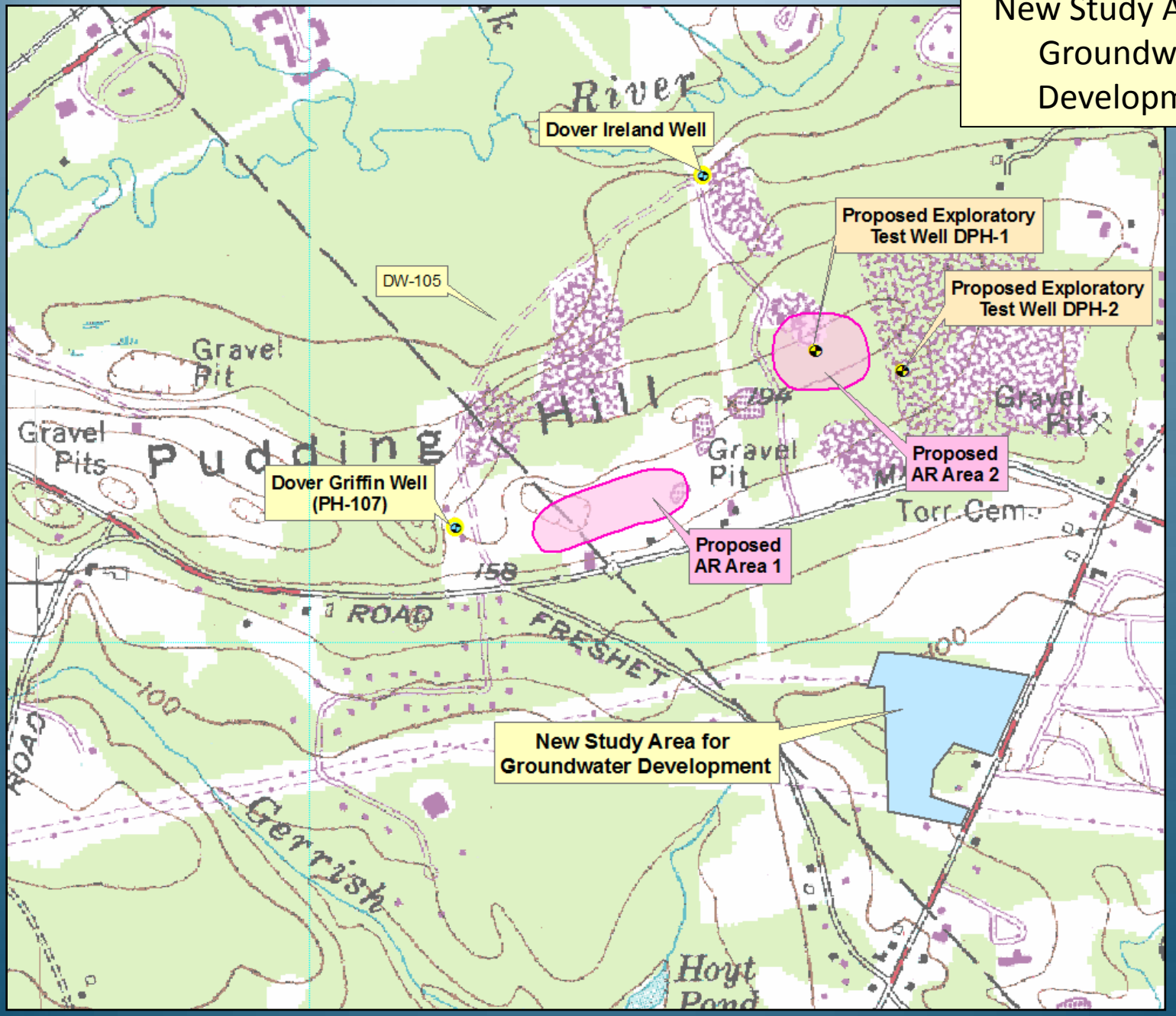
New Study Area for Groundwater Development



END

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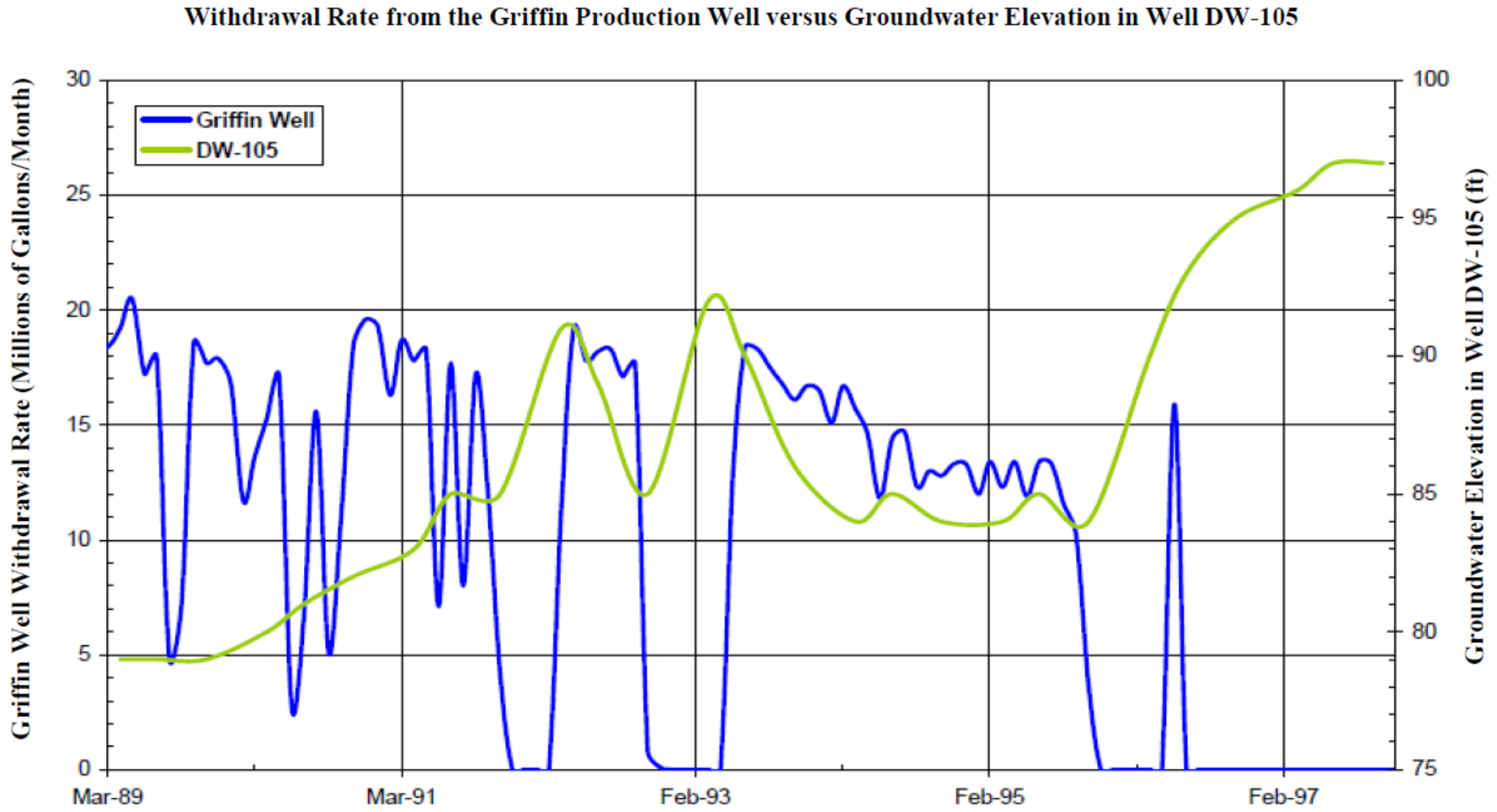
Figure 3 - Long-Term Water Use and Water Levels from the Griffin Production Well



SUMMARY REPORT
IRELAND AND GRIFFIN WELL FIELD
PUDDING HILL AQUIFER ASSESSMENT
PHASE I

CITY OF DOVER PUBLIC WORKS
DOVER, NEW HAMPSHIRE

Ireland Production Well

Interlayered sand and gravel

Well DW-105

Report Submitted
May 2013

EMERY & GARRETT GROUNDWATER, INC.