



Groundwater Mitigation Program

HRPDC

Background

CREATED 1994

Program was prompted by drought conditions

SUPPORTING PRIVATE WELL OWNERS

This program streamlines the mitigation process for private well owners, residential, or commercial citizens

ELIGIBILITY

Program eligibility and technical analysis to determine how much each locality owed for each mitigation claim has changed over time



How it works

CLAIM SUBMITTED

Claim submitted by individual well owner to host locality

REGIONAL IMPACTS

Host locality reimburses for the percentage of impact caused by regional municipal pumping

LOCALITY IMPACTS

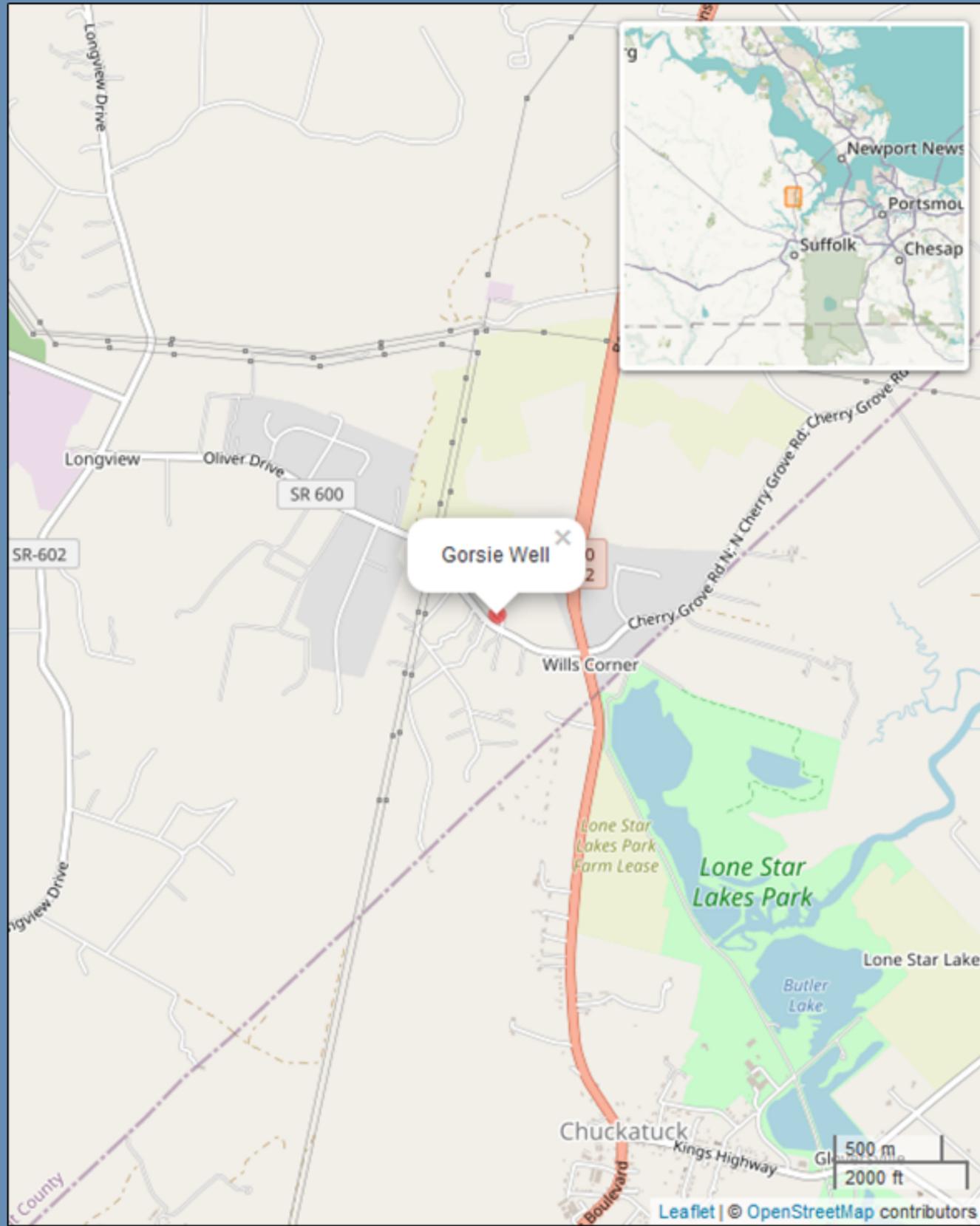
Localities reimburse the host locality for their contribution to drawdown



CLAIM
SUBMITTED

REGIONAL
IMPACTS

LOCALITY
IMPACTS



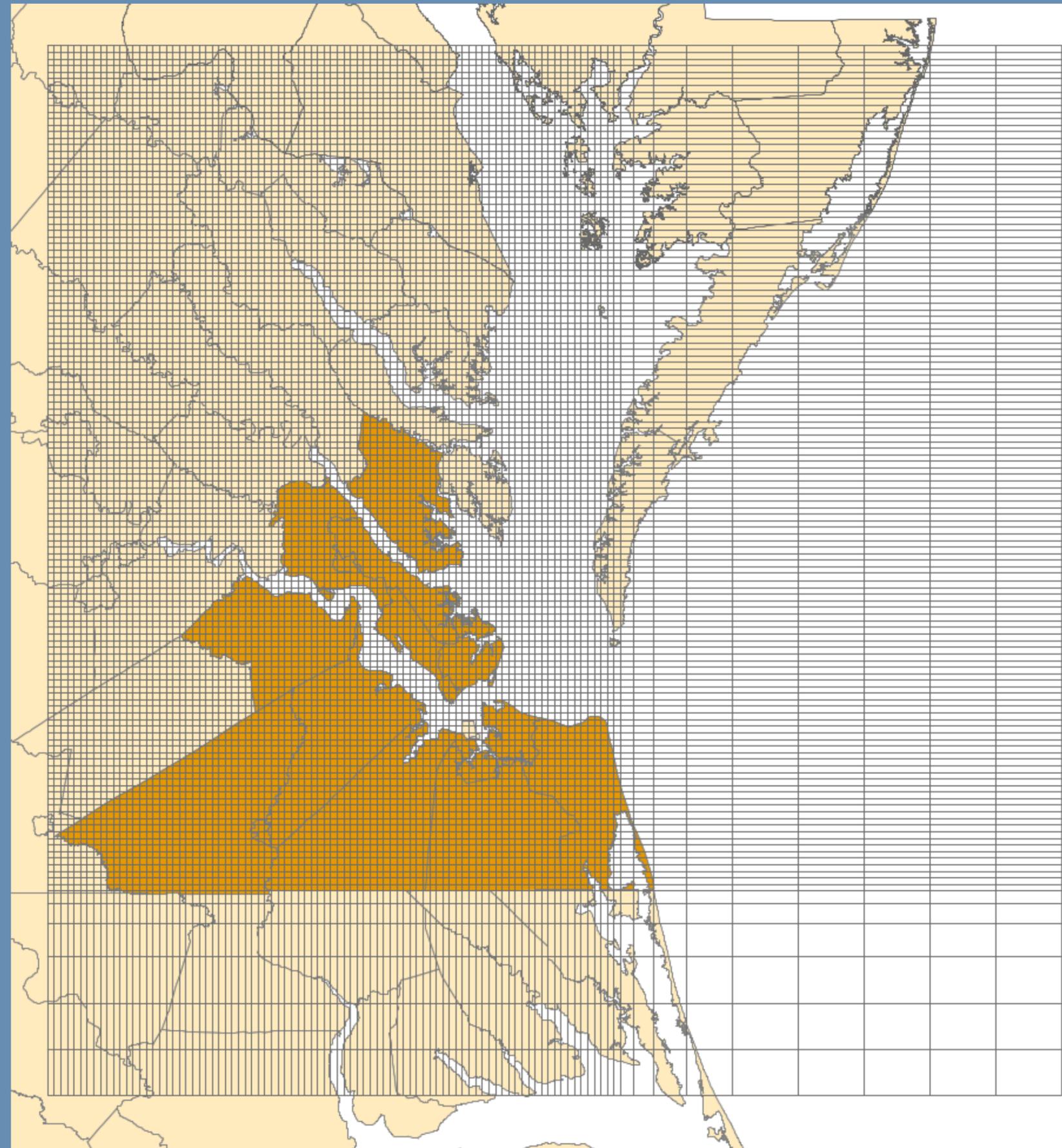
Philip Gorsie

- SUBMITTED JUNE 2009
- WELL LOCATED IN ISLE OF WIGHT
- WELL IN THE POTOMAC AQUIFER
- REQUESTED **\$1234.23** TO LOWER WELL BY 21 FT

Virginia Coastal Plain Model

LAST UPDATED BY USGS IN 2009

**USED BY DEQ TO EVALUATE
PERMIT APPLICATIONS**

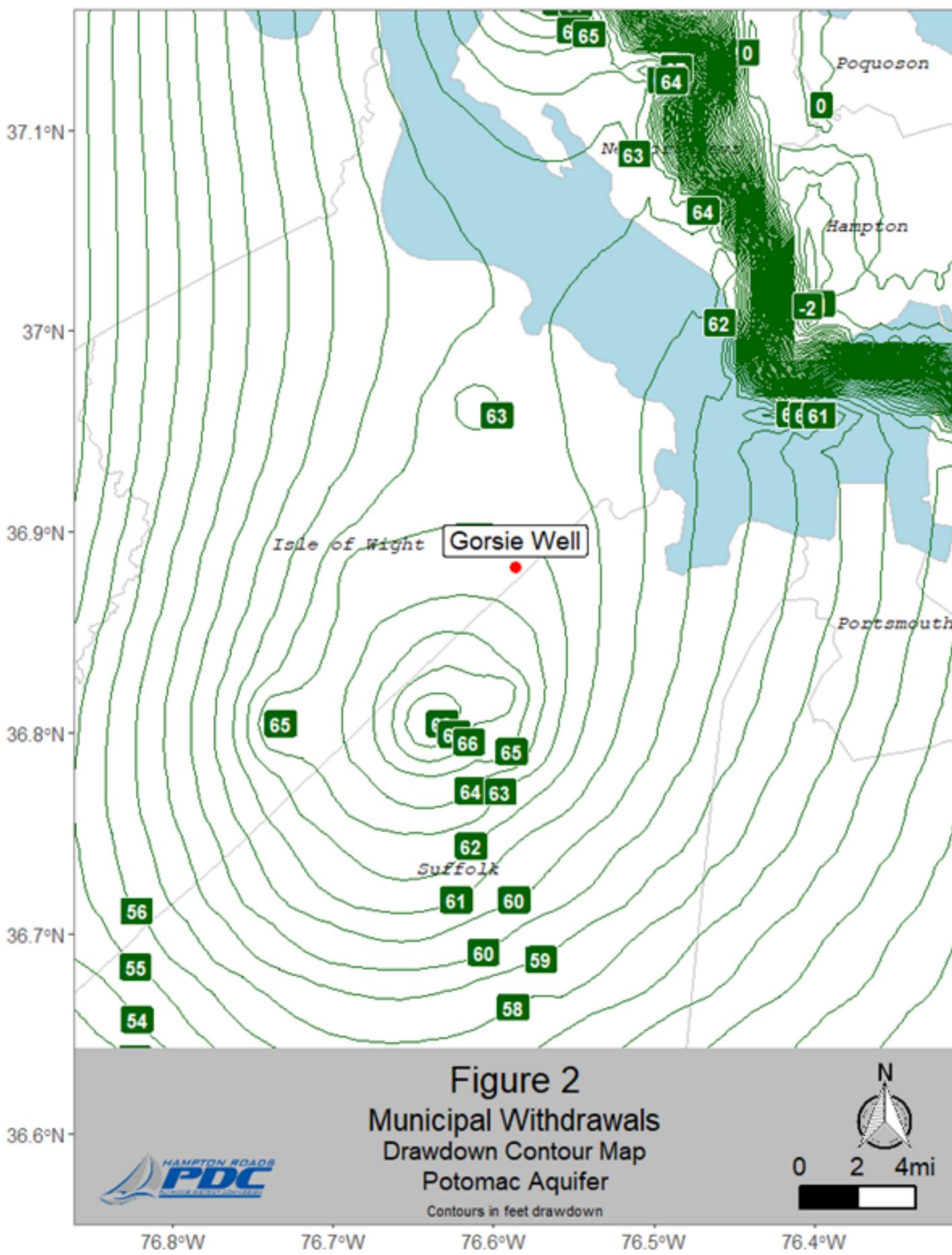


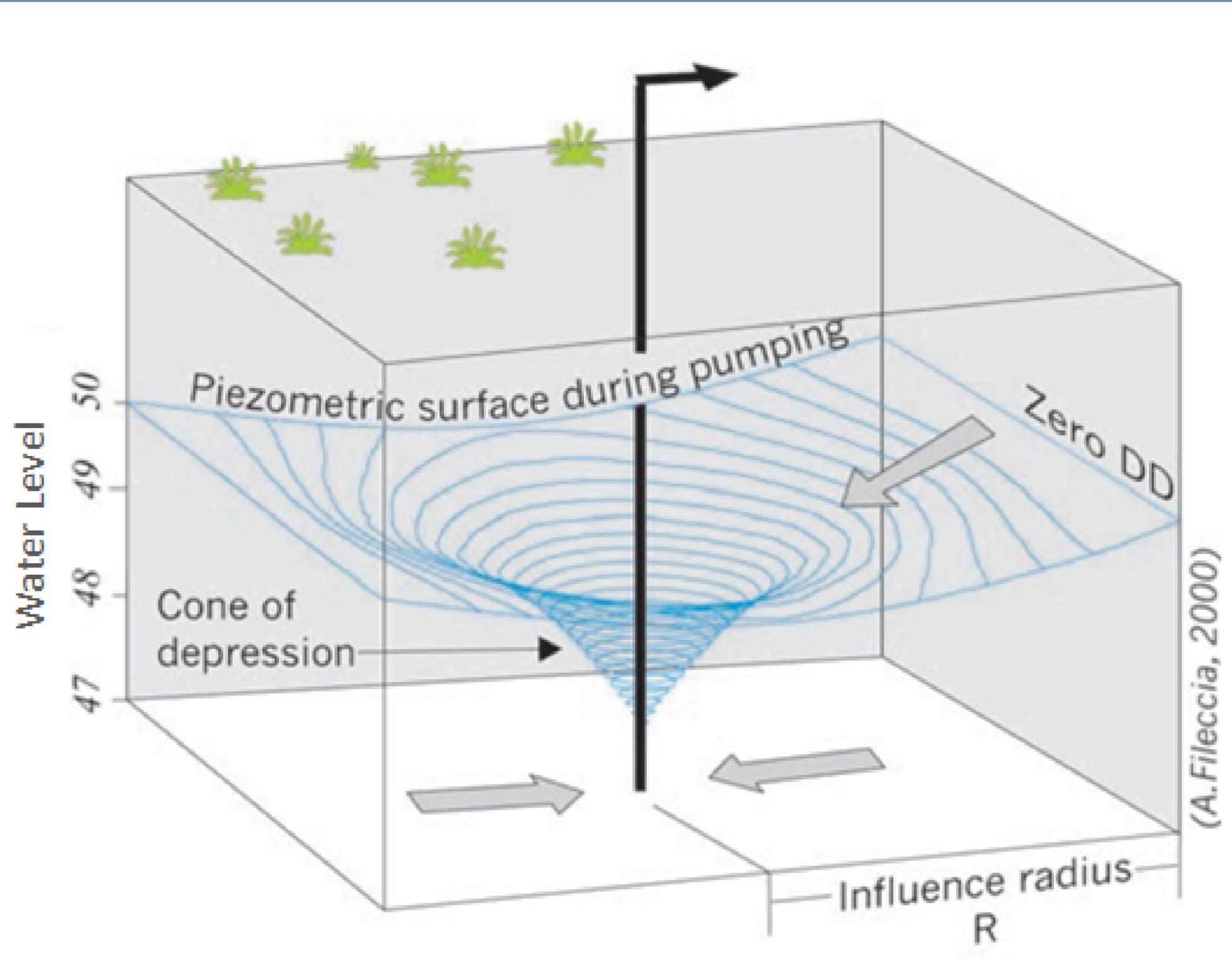
CLAIM
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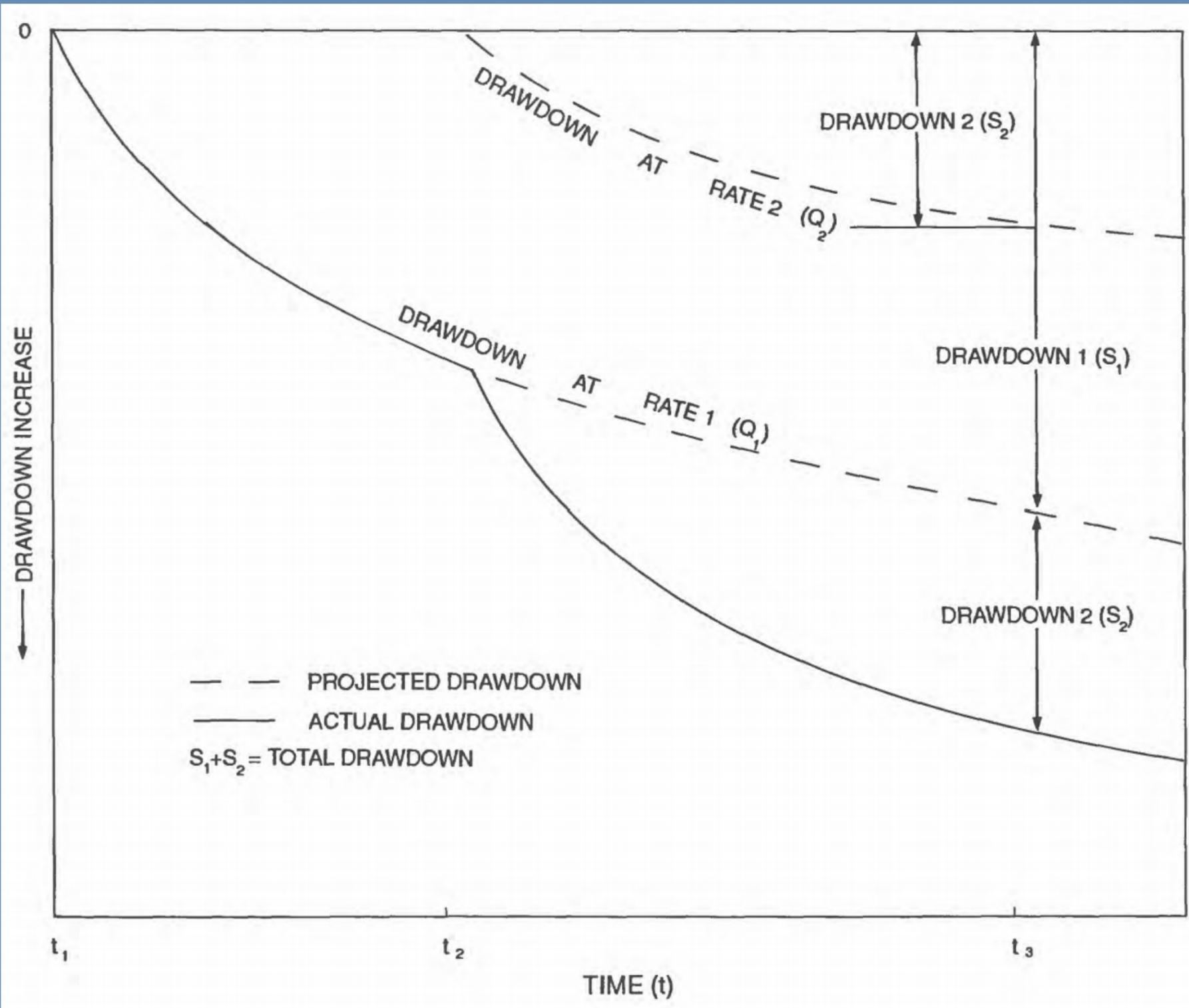
LOCALITY
IMPACTS

THE CITIZEN IS ONLY REIMBURSED FOR MUNICIPAL WITHDRAWALS, THE CITIZEN IS REQUIRED TO REACH OUT TO PRIVATE INDUSTRY THEMSELVES

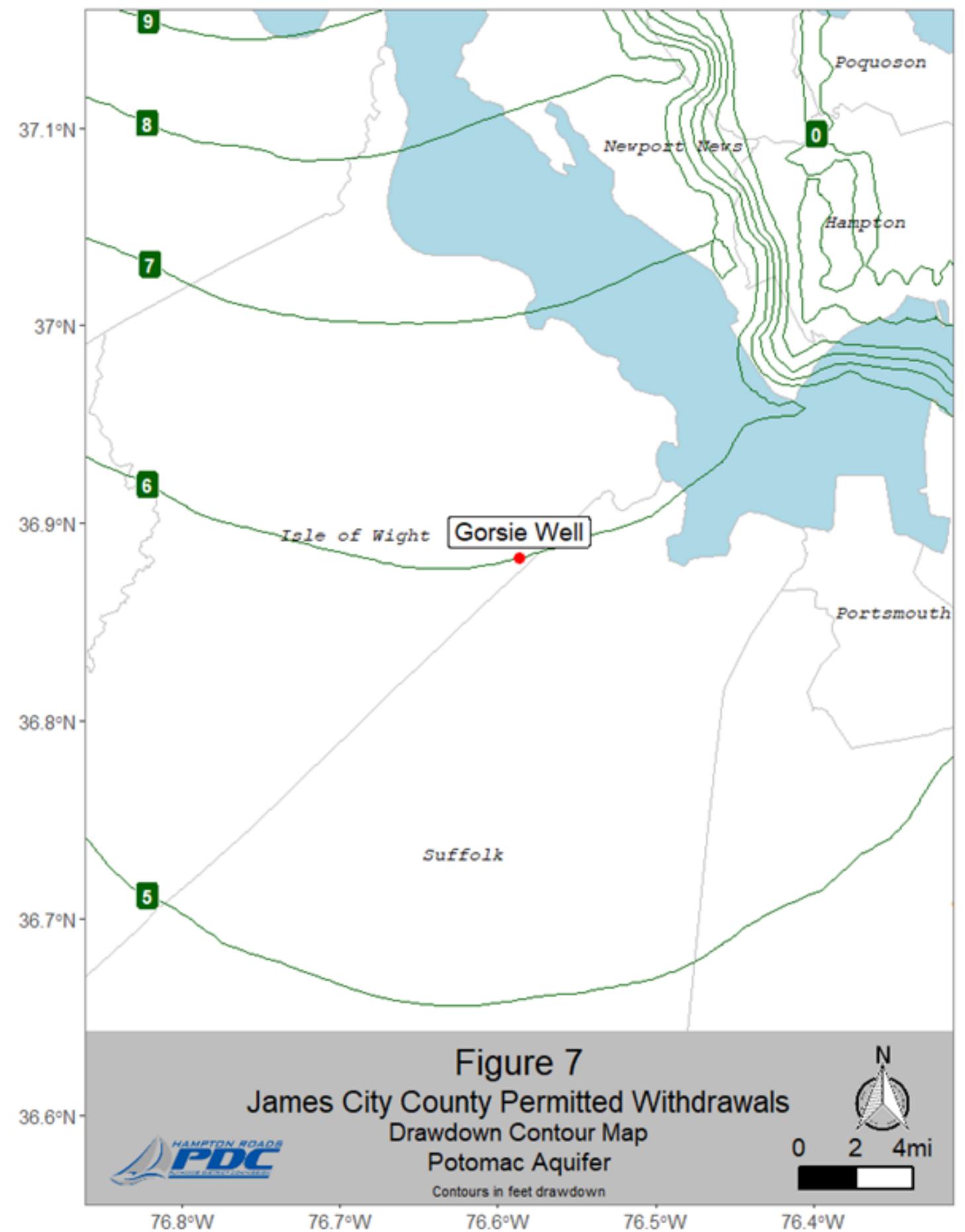
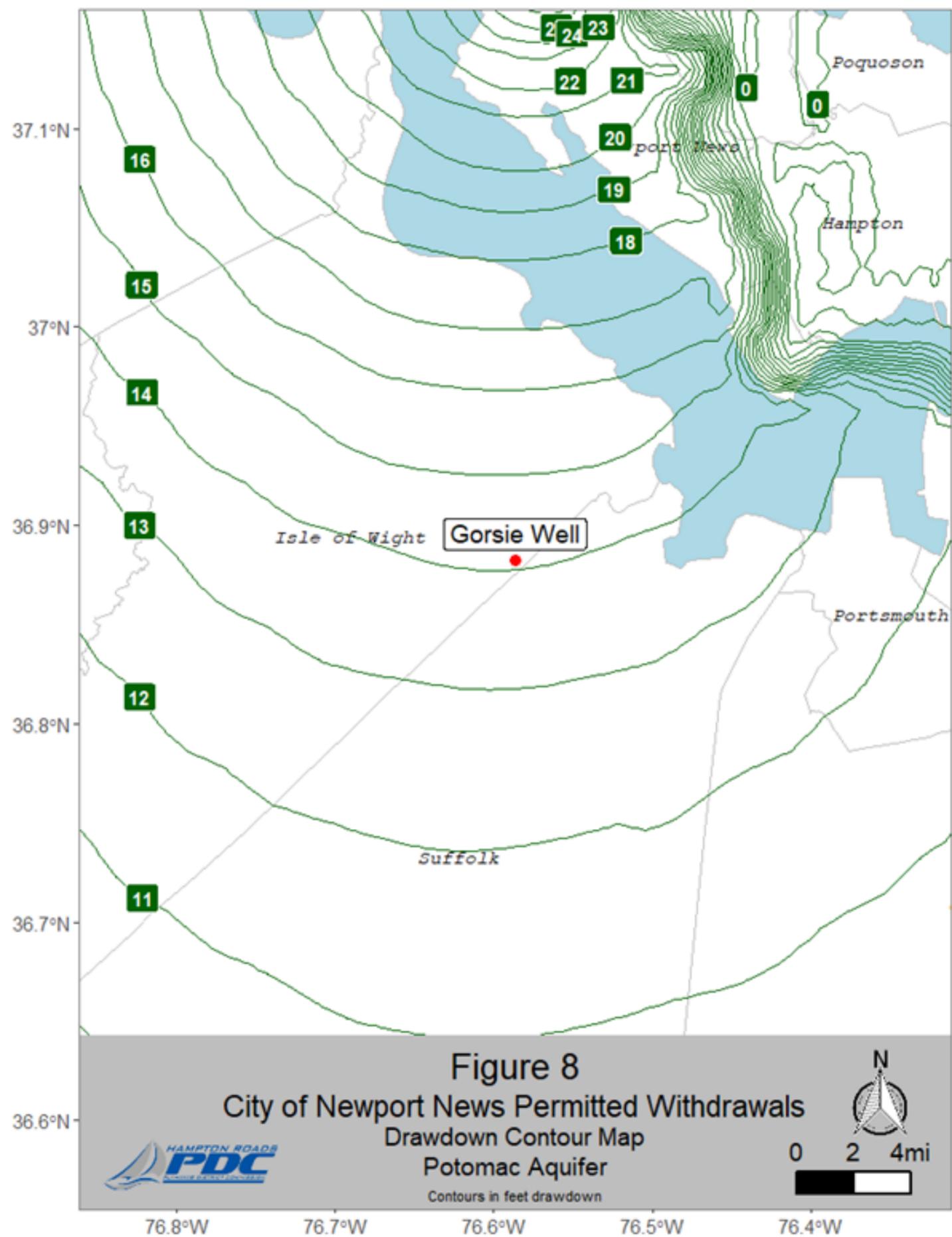




**DRAWDOWN
EFFECTS
INCREASE AS
YOU GET CLOSER
TO THE WELL**



Net drawdown is the sum of the drawdowns caused by each individual well



Model Results

Mitigation Claim Summary (PART A)

	Estimated Drawdown	Percent of Total Drawdown	Relative Costs
Cumulative Municipal Drawdown	64 ft	52 %	\$ 653.94
Other Permitted Drawdown	58 ft	48 %	\$ 596.75
Estimated Total	121 ft	100 %	\$ 1243.23

Reimbursement Assessment Summary (PART B)

Municipal Well System	Estimated Drawdown	Percent of Cumulative Municipal Drawdown	Relative Costs
Chesapeake	8 ft	12.5 %	\$ 81.74
Franklin	3 ft	4.7 %	\$ 30.65
Isle of Wight	5 ft	7.8 %	\$ 51.09
James City Serv. Authority	5 ft	7.8 %	\$ 51.09
Newport News Waterworks	13 ft	20.3 %	\$ 132.83
Norfolk	10 ft	15.6 %	\$ 102.18
Portsmouth	9 ft	14.1 %	\$ 91.96
Southampton	0 ft	0 %	\$ 0
Suffolk	0 ft	0 %	\$ 0
WTWA	11 ft	17.2 %	\$ 112.40
Total	64 ft	100 %	\$ 653.94

REIMBURSEMENT IS SPLIT BETWEEN LOCALITIES

BASED ON DRAWDOWN AMOUNTS FOR EACH LOCALITY

THE CITIZEN WILL HAVE TO REACH OUT TO PRIVATE INDUSTRY FOR NON-MUNICIPAL CAUSED DRAWDOWNS

Next Steps

MOA EXPIRES DECEMBER 2020

**UPDATE THE PROGRAM TO RUN
USING REPORTED WITHDRAWALS
2000-2020**

**DEVELOP DETAIL TECHNICAL
GUIDANCE ON RUNNING THE
MODEL FOR MITIGATION CLAIMS**

**AS THE MODEL IS UPDATED WE CAN
BE MORE ACCURATE IN ASSESSING
INDIVIDUAL LOCALITY
CONTRIBUTION TO DRAWDOWN**