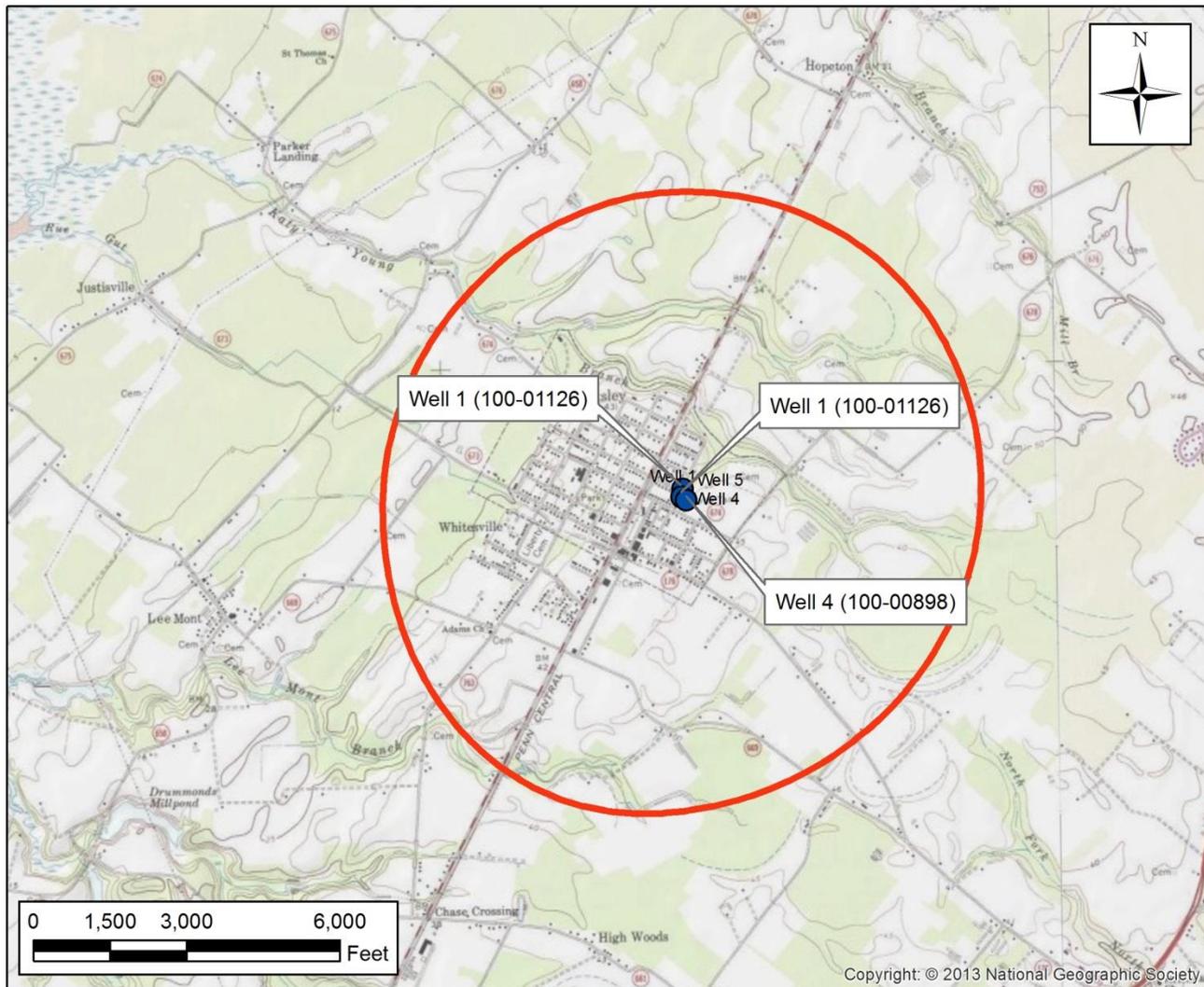


Town of Parksley

Area of Impact - Upper Yorktown-Eastover Aquifer



● Town of Parksley Wells

○ Upper Yorktown-Eastover Area of Impact

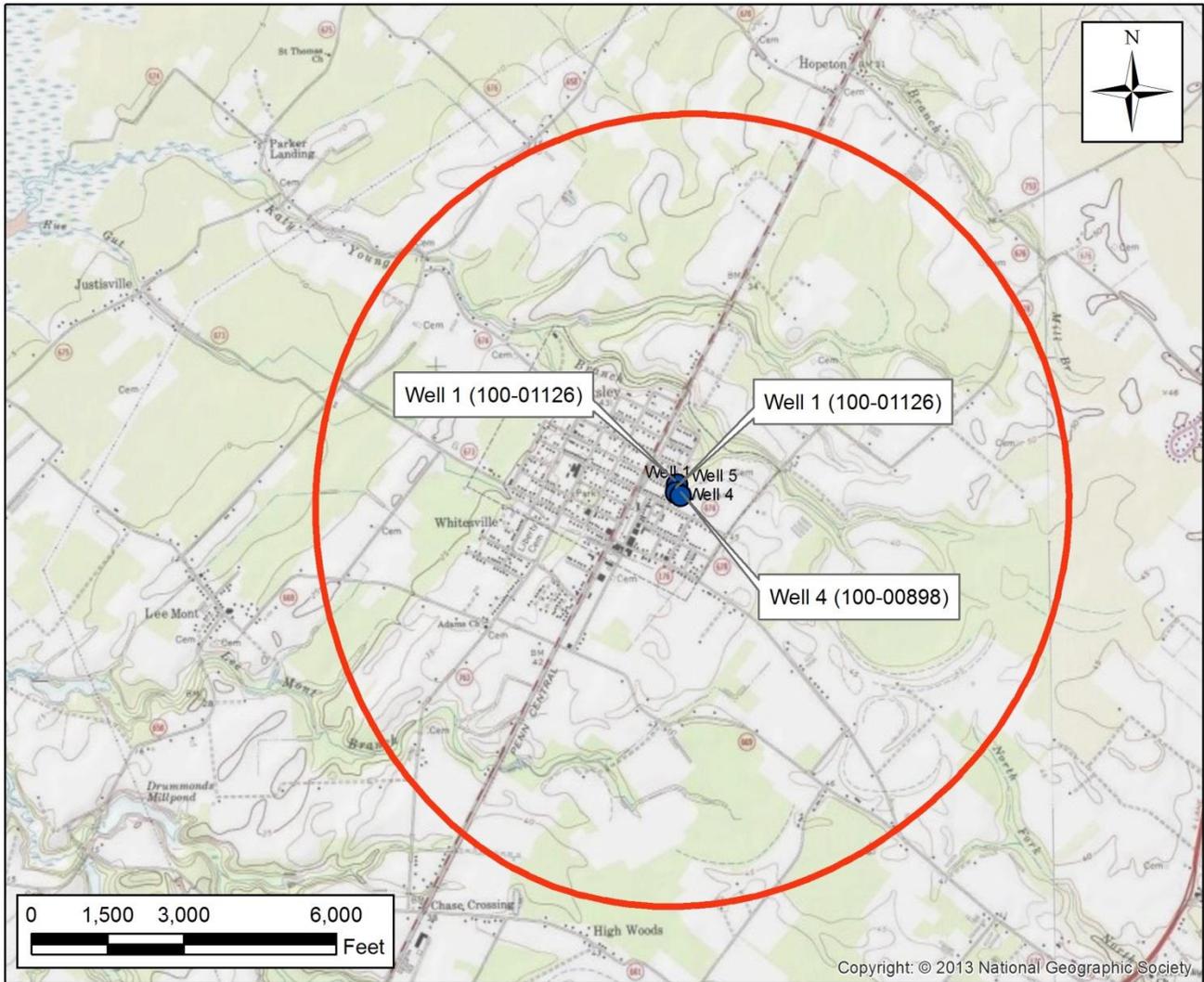
Simulated drawdown at or exceeding one foot in the Upper Yorktown-Eastover aquifer resulting from a 29,220,000 gallon per year (80,055 gpd), steady-state, multi-aquifer withdrawal. Maximum radius of one drawdown (Area of Impact) occurs 1.2 miles from the pumping center. The Virginia Eastern Shore Model developed by the USGS was used to simulate drawdown.

Technical evaluation performed by Aquaveo, LLC for the Virginia DEQ, Office of Water Supply
November 5, 2014



Town of Parksley

Area of Impact - Middle Yorktown-Eastover Aquifer



● Town of Parksley Wells

○ Middle Yorktown-Eastover Area of Impact

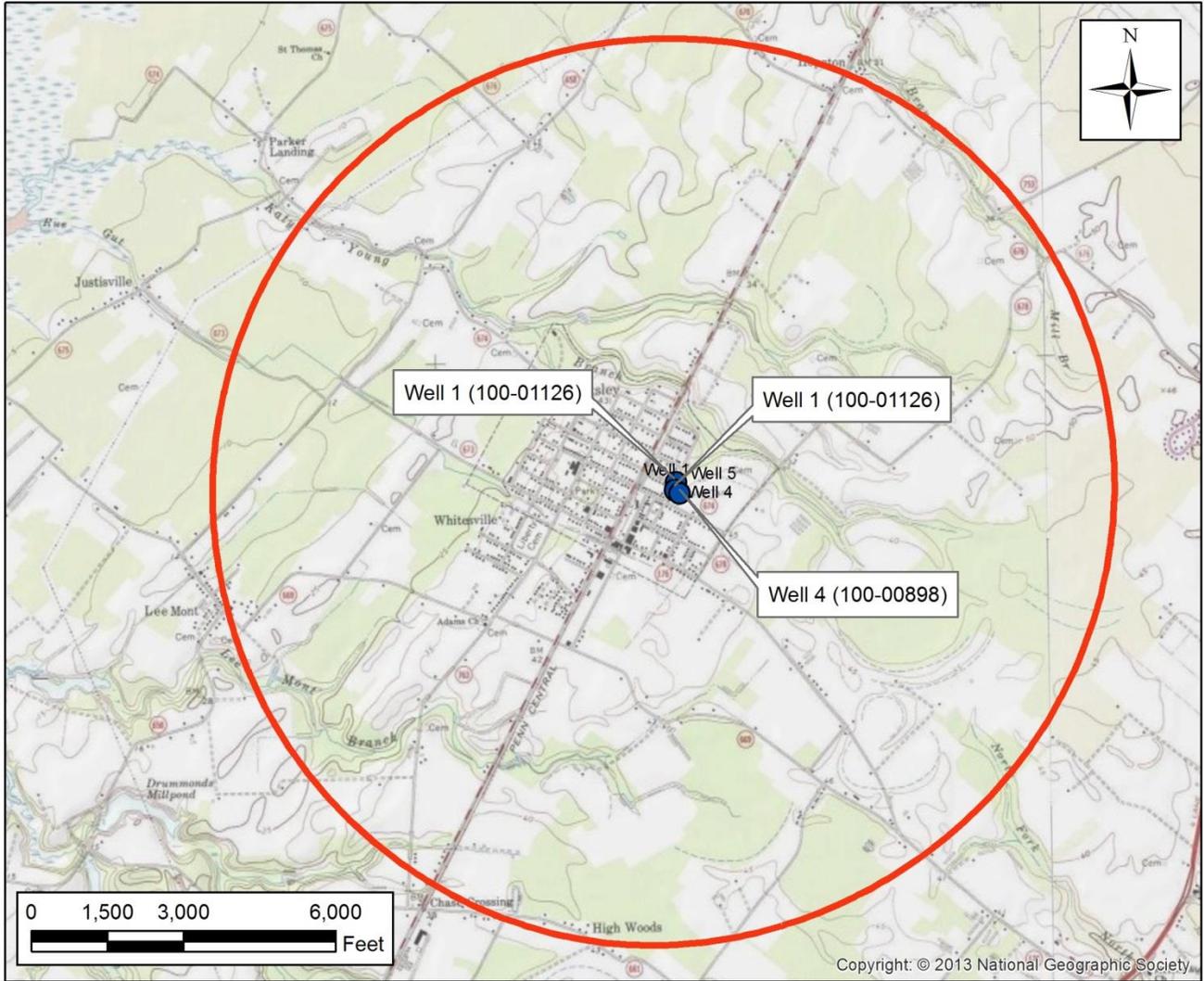
Simulated drawdown at or exceeding one foot in the Middle Yorktown-Eastover aquifer resulting from a 29,220,000 gallon per year (80,055 gpd), steady-state, multi-aquifer withdrawal. Maximum radius of one drawdown (Area of Impact) occurs 1.5 miles from the pumping center. The Virginia Eastern Shore Model developed by the USGS was used to simulate drawdown.

Technical evaluation performed by Aquaveo, LLC for the Virginia DEQ, Office of Water Supply
November 5, 2014



Town of Parksley

Area of Impact - Lower Yorktown-Eastover Aquifer



- Town of Parksley Wells
- Lower Yorktown-Eastover Area of Impact

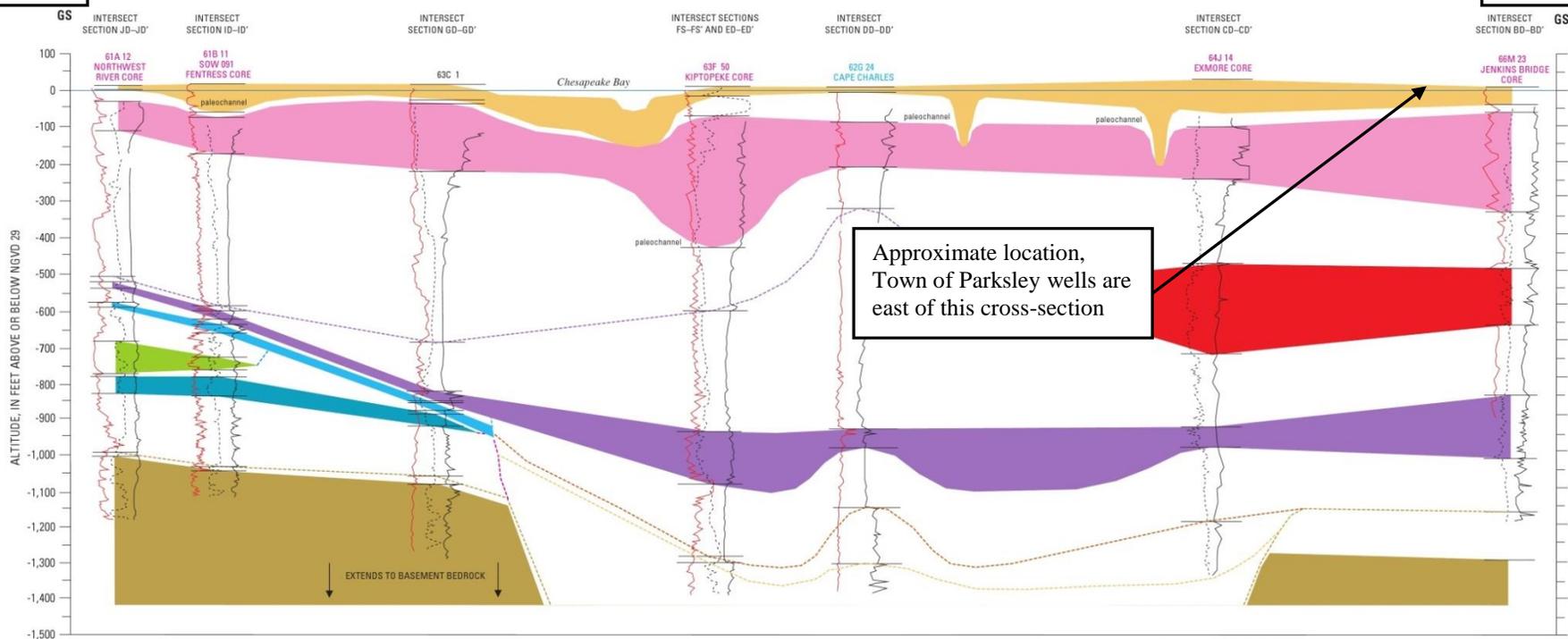
Simulated drawdown at or exceeding one foot in the Lower Yorktown-Eastover aquifer resulting from a 29,220,000 gallon per year (80,055 gpd), steady-state, multi-aquifer withdrawal. Maximum radius of one drawdown (Area of Impact) occurs 1.7 miles from the pumping center. The Virginia Eastern Shore Model developed by the USGS was used to simulate drawdown.

Technical evaluation performed by Aquaveo, LLC for the Virginia DEQ, Office of Water Supply
November 5, 2014



SOUTH

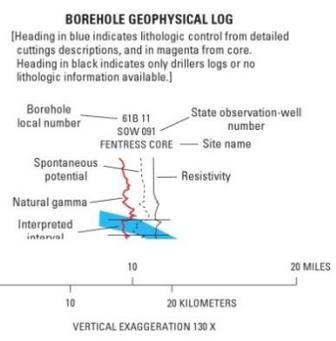
NORTH



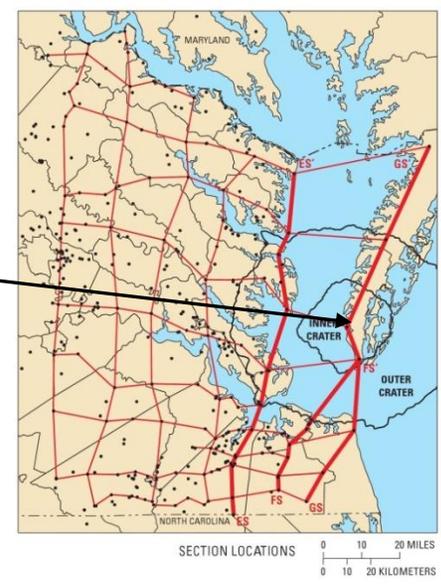
EXPLANATION

[Aquifers are shown by solid colors. Confining units and zones are shown by intervening blank areas following the sequence below. Where adjacent confining units or zones are in direct contact, the top surface of the unit or zone is shown by dashed lines.]

- | | |
|----------------------------------|---------------------------------|
| Surficial aquifer | Aquia aquifer |
| Yorktown confining zone | Peedee confining zone |
| Yorktown-Eastover aquifer | Peedee aquifer |
| Saint Marys confining unit | Virginia Beach confining zone |
| Saint Marys aquifer | Virginia Beach aquifer |
| Calvert confining unit | Upper Cenomanian confining unit |
| Piney Point aquifer | Potomac confining zone |
| Chickahominy confining unit | Potomac aquifer |
| Exmore Matrix confining unit | Basement bedrock |
| Exmore Clast confining unit | |
| Nanjemoy-Marlboro confining unit | |



Reference location of cross-section above



Coastal Plain (2006) Cross-Sections GS-GS' from USGS Professional Paper 1731.