



Charles County MD

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8.3.2007

Charles County and Southern Maryland are facing environmental challenges on a number of fronts. By 2011 the Maryland Department of the Environment (MDE) and the Federal Environmental Protection Agency (EPA) will have in place substantial changes in allowable discharges in area watersheds and waterways.

Presently through municipal waste water treatment systems the County, area towns and special projects discharge over 12 million gpd of treated effluent supporting over 140,000 residents and 2980 operating businesses. This discharge flow could double over the next decade or two with ultimate flows of 50 mpd.

Though Charles County is ahead of schedule on meeting new discharge criteria's the future quality of life in the area is threatened if an alternative strategy can not be found to divert and eliminate the effluent discharges going into the area's waterways.

Charles County is reviewing a strategy to deploy a closed loop treated effluent system that will manage the discharge and redirect it to present and planned energy plants in the County for use as process and cooling water.

The system would be the largest in existence in Maryland and in the Country at this time.

Charles County is exploring this opportunity and seeks collaborative partners as part of the County's "Green Concepts".

Attachments: Charles County Closed Loop System model and infrastructure

Key Contacts:

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# CHARLES COUNTY MARYLAND

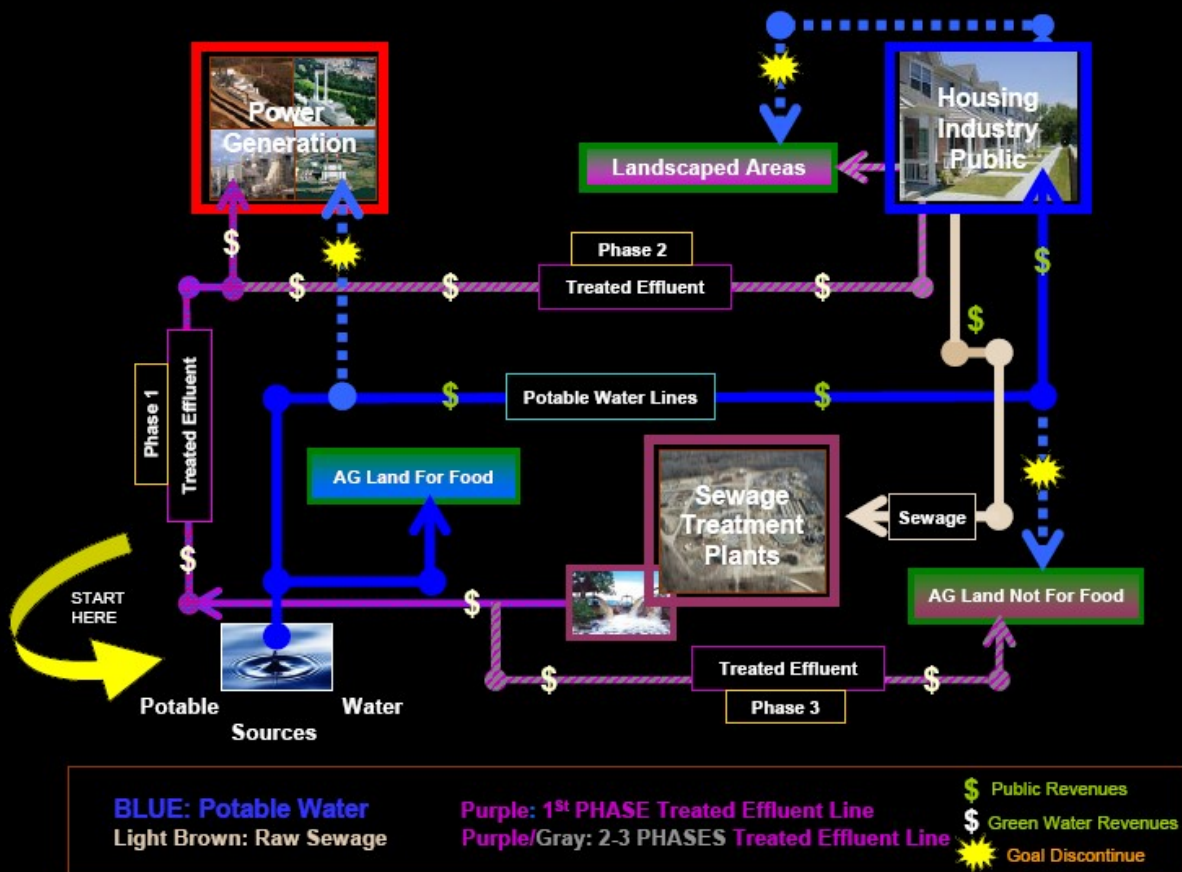
## Closed Loop Treated Effluent System Proposal

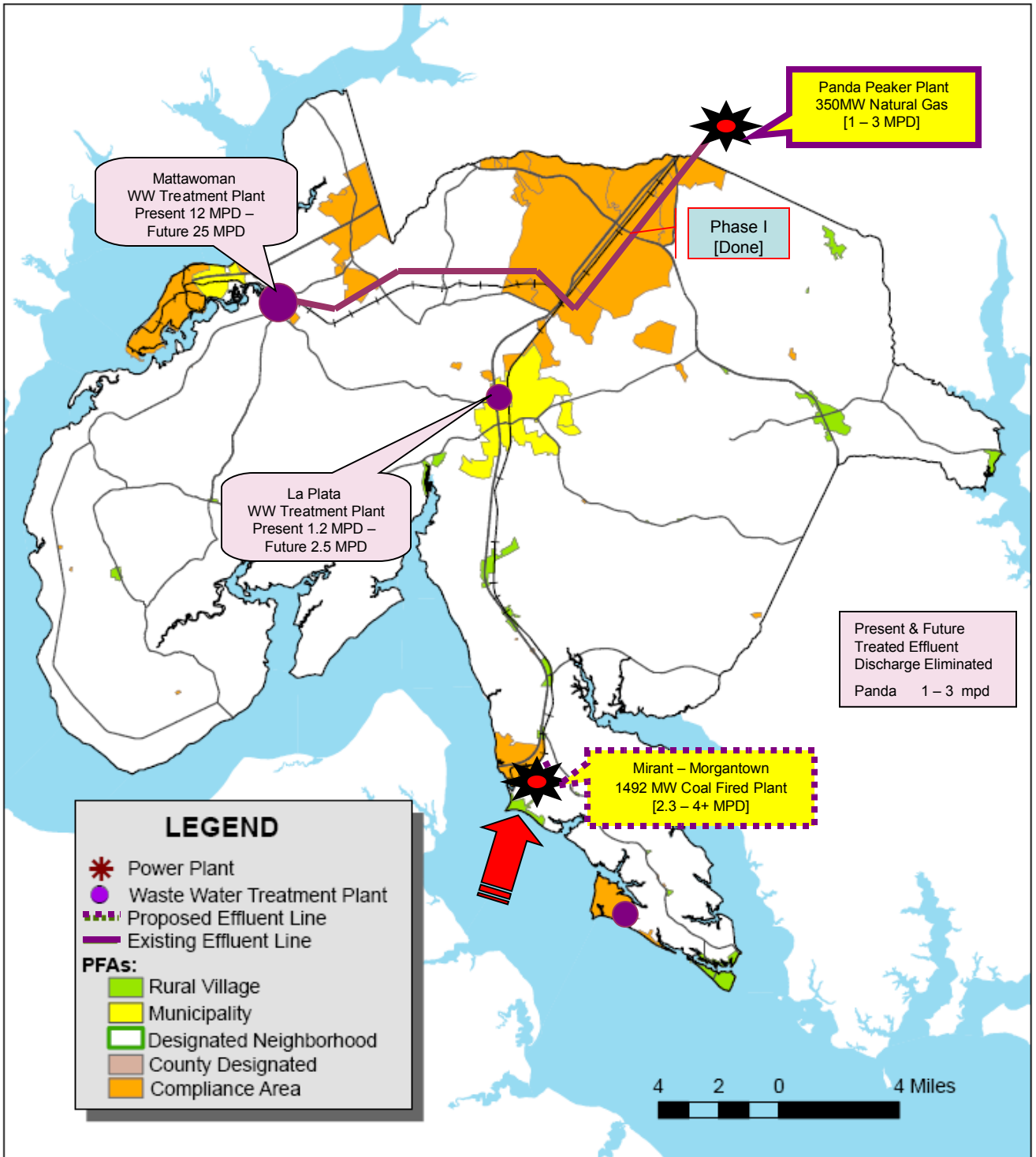
Presented by  
Chuck Beall PGM and John Reardon EDD  
August 3, 2007



# Closed Loop Treated Effluent System Proposal

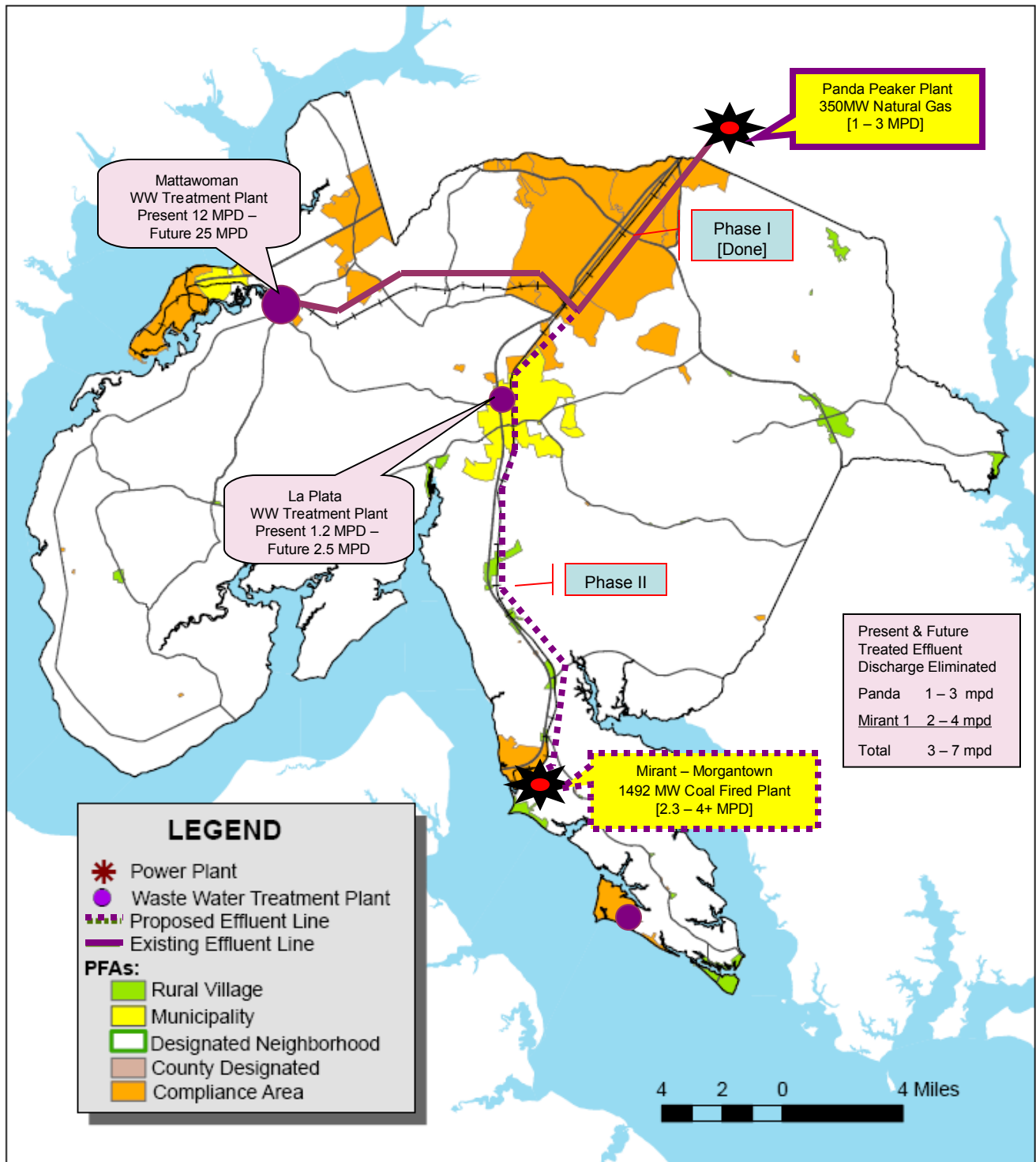
Charles County, MD Closed Loop System Proposal



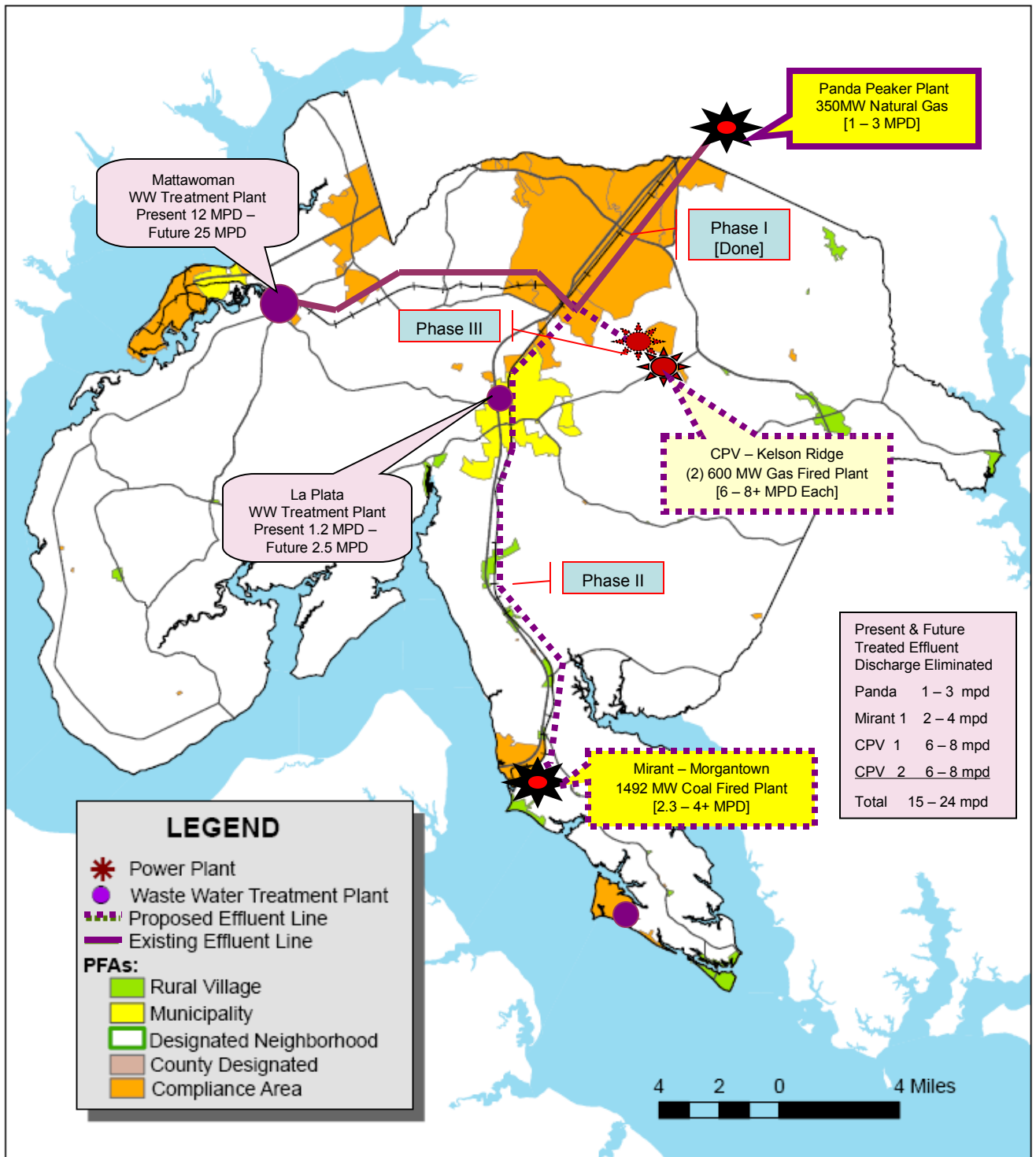


Effluent lines shown on this map do not represent actual or recommended routes but are provided to illustrate connections between points.

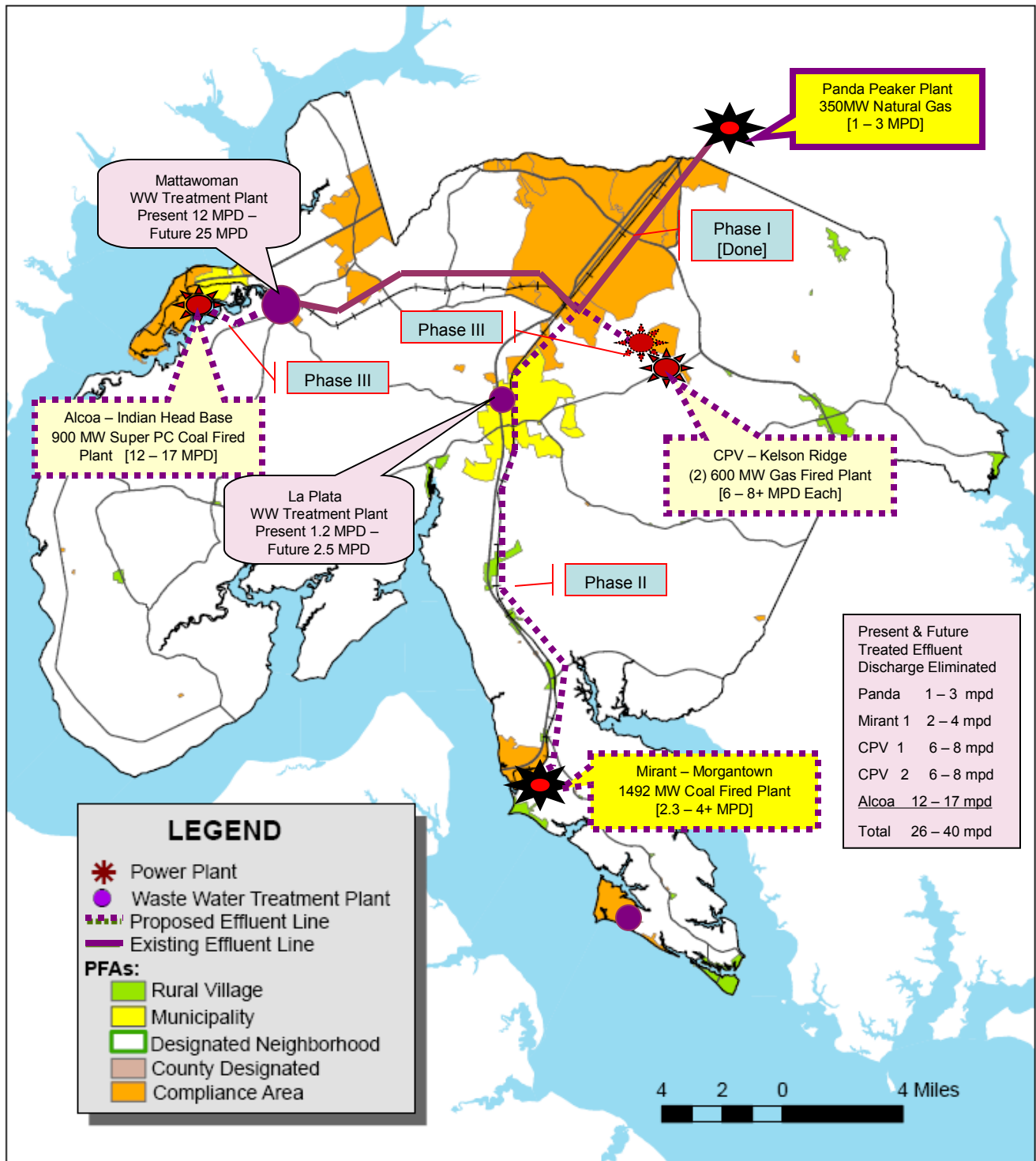
Phase I Completed



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