



# LEGEND

- Recharge Area
- Contact
- Block Fault
- Thrust Fault
- Syncline or Anticline
- Harley-Davidson Property Boundary

## GEOLOGIC FORMATION

- Trnc** New Oxford Conglomerate
- Trn** New Oxford Formation
- OCc** Conestoga Formation
- Cl** Ledger Formation
- Ck** Kinzers Formation
- Cks** Kinzers Shale\*
- Cv** Vintage Formation
- Ca** Antietam Formation
- Cah** Antietam & Harpers Formation, undiv.
- Ch** Harpers Formation
- Cch** Chickies Formation
- mb** Metabasalt
- vs** Greenstone Schist

\*Kinzers Shale member mapping was taken from Plate 1, Bulletin C67 (Stose and Jonas, 1939)

Base Map Sources:  
USGS topographical quadrangles (various years)  
Pennsylvania DCNR geologic map (1980)

Scale (feet)  
0 375 750 1,500

Figure 3.3-2

## Former York Naval Ordnance Plant

1425 Eden Road, York, PA 17402

## Geologic Map and Recharge Area

DRAWN BY: JPB | CHECKED AND APPROVED BY: SMS | DATE: 8/16/2011

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**GROUNDWATER SCIENCES CORPORATION**

Allogenic Groundwater Recharge	
Chickies Formation	0.140 Mi <sup>2</sup> x 0.42 MGD/Mi <sup>2</sup> = 0.059 MGD
Antietam/Harpers Formation	0.176 Mi <sup>2</sup> x 0.42 MGD/Mi <sup>2</sup> = 0.074 MGD
	0.133 MGD
Autogenic Groundwater Recharge	
Vintage Formation	0.191 Mi <sup>2</sup> x 0.63 MGD/Mi <sup>2</sup> = 0.120 MGD
<b>TOTAL AVERAGE ANNUAL RECHARGE</b>	<b>0.253 MGD</b>

Recharge Rates from Gerhart and Lazorchick