





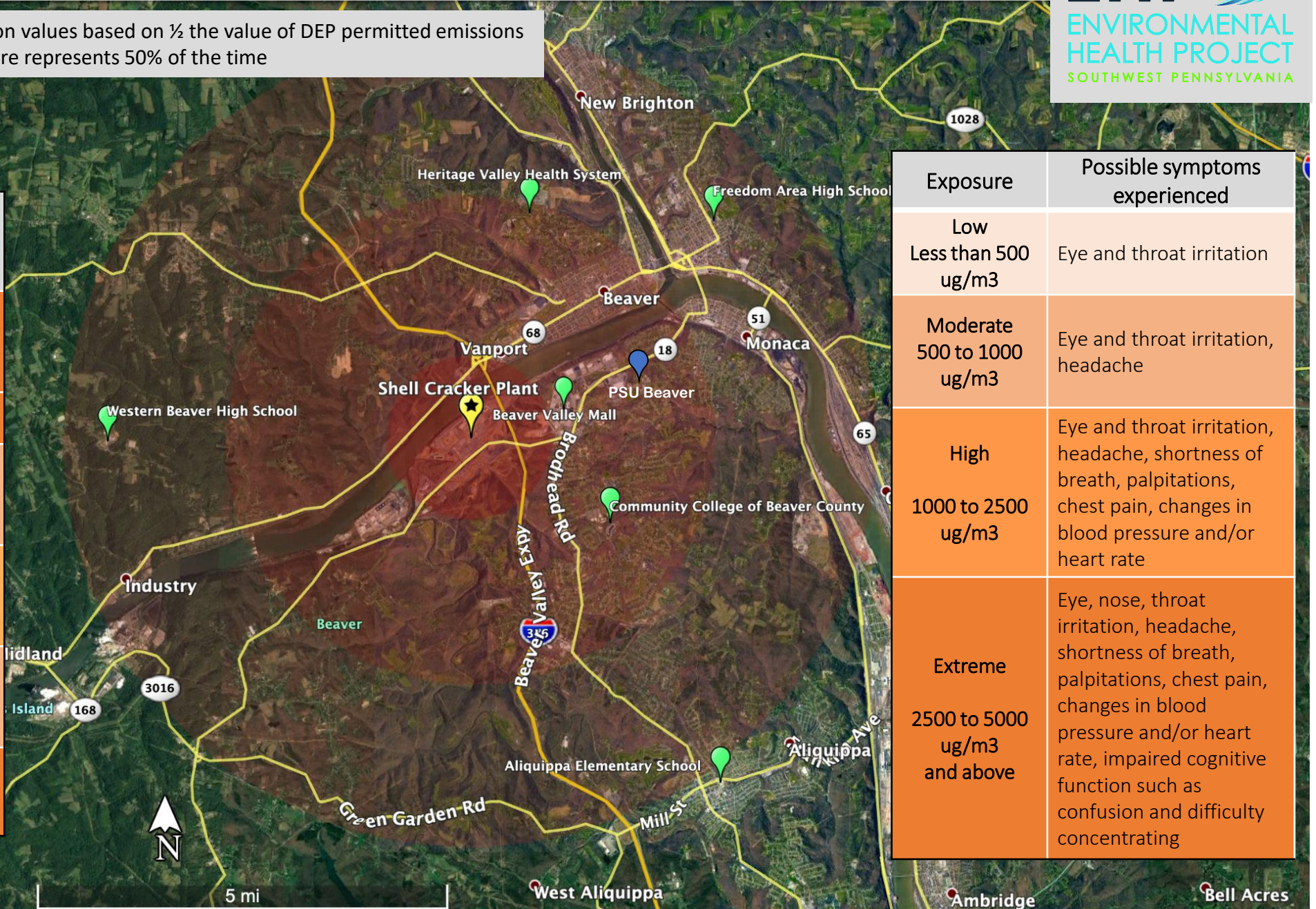
EHP Exposure Modeling of the Shell Cracker Plant

Legend

-  1 Mile
-  3 Miles
-  5 Miles
-  Shell Cracker Plant

- Emission values based on ½ the value of DEP permitted emissions
- Exposure represents 50% of the time

Location	Exposure to emissions (ug/m3)
Heritage Valley Health System	2,861
CCBC	2,861
Aliquippa Elementary School	715
Western Beaver High School	1,073
Freedom Area High School	715
Beaver Valley Mall (Head Start & Office on Aging)	13,234



Exposure	Possible symptoms experienced
Low Less than 500 ug/m3	Eye and throat irritation
Moderate 500 to 1000 ug/m3	Eye and throat irritation, headache
High 1000 to 2500 ug/m3	Eye and throat irritation, headache, shortness of breath, palpitations, chest pain, changes in blood pressure and/or heart rate
Extreme 2500 to 5000 ug/m3 and above	Eye, nose, throat irritation, headache, shortness of breath, palpitations, chest pain, changes in blood pressure and/or heart rate, impaired cognitive function such as confusion and difficulty concentrating

