

Memo

To: Fred Murry, Assistant City Manager
Teresa Scott, P.E., Director of Public Works

From: Stewart Pearson, P.E.

Date: 4/5/2010


Re: DEP/UF Risk Assessment March 28, 2010

The correspondence from DEP dated March 28, 2010 and UF dated February 3, 2010 defines the basis of revisions to be made to the risk assessment for the Koppers site. The following is prepared to help interpret the findings by the UF Center for Environmental & Human Toxicology that used available site data and commercially available software that simulates the modeling done by the AMEC firm for Beazer but produces different results due to the differing basic assumptions. .

Figure 2 is excerpted from the Risk Assessment by AMEC, dated August 19, 2004 (Figure 2-4) and identifies the use areas of the site. The figure has been amended to show the location of the risk values and the comparative risk from the UF report. The following table presents the results of the UF report for the areas of the site that border the residential neighborhood to the west and the amount of the excess cancer risk for that area as compared to the State of Florida criteria. For example the Western Active Area (WAA) has 107 times the cancer risk allowed by the State according to the UF data.

Koppers Onsite Risk Forecast Values			
Source: UF Letter Report February 3, 2010			
Border Areas of Site			
Area	Dioxin EPC (ng/kg)	95%ile on risk distribution	Comparative Risk (95%ILE/SFR)
NCIA	92709	3.61E-03	3,610
NEGA	6231	2.42E-04	242
NWGA	1291	5.02E-05	50
SWWA/open	3910	1.52E-04	152
WAA	2740	1.07E-04	107
State of FL Risk Criteria (SFR)		1.00E-06	



LEGEND	TITLE	LOCATION MAP	NOTES & SOURCES
<p>— Exposure Area</p> <p>— Drainage Ditch</p>	<p>Figure 2</p> <p>Exposure Areas</p> <p>Koppers, Inc. Wood-Treating Facility Gainesville, Florida</p> <p>SFR = State of Florida lifetime excess cancer risk of 1/1,000,000</p>		<p>Base Map Data from Google Earth, Acquired September 11, 2008.</p> <p>0 250 Feet</p> <p>amec AMEC Earth & Environmental, Inc. Westford, Massachusetts</p> <p>H:\Bases\Gainesville\Task2\11MXD\Figure2.mxd H:\Bases\Gainesville\Task2\11MXD\Figure2.mxd November 20, 2008 GWN APC GHK KMP</p>